



EA Engineering, Science,  
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7 June 2007

Mr. Gary Miller  
Task Order Monitor  
U.S. Environmental Protection Agency (EPA)  
1445 Ross Avenue, Suite 1200  
Dallas, TX 75202-2733

**Subject:** Analytical Data Package/Electronic Data Deliverable  
Surface Soil Split Samples (9 – 10 April 2007)  
Gulfco Marine Maintenance Site RI/FS Oversight  
U.S. Environmental Protection Agency Region 6  
Remedial Action Contract 2, Contract: EP-W-06-004  
Task Order: 0006-RICO-06JZ

Dear Mr. Miller:

For the above-referenced Task Order, EA Engineering, Science, and Technology, Inc. (EA) is enclosing one original hard copy of the complete analytical data package associated with the following surface soil split samples obtained from 9 – 10 April 2007:

- BSS-8-EPA – Semivolatile organic compounds (SW-846 Method 8270C), pesticides (SW-846 Method 8081A), total metals (SW-846 Methods 6010B/7471A), and percent moisture.
- L19SS05-EPA – Total metals (SW-846 Methods 6010B/7471A) and percent moisture
- L19SS11-EPA – Total metals (SW-846 Methods 6010B/7471A) and percent moisture
- L20SS07-EPA – Total metals (SW-846 Methods 6010B/7471A) and percent moisture
- L20SS08-EPA – Total metals (SW-846 Methods 6010B/7471A) and percent moisture

Based on data validation performed by EA, as outlined in the EPA-approved work plan (dated 31 July 2006), all of the data is considered usable as qualified, with the following exceptions:

- For sample BSS-8-EPA, non-detect results for 4,4'-DDT and methoxychlor were qualified (UJ) due to elevated percent difference (%D) in continuing calibration calculations.
- For samples L19SS11-EPA, L19SS05-EPA, L20SS08-EPA, and BSS-8-EPA, silver results were qualified (UJ) due to contamination in initial calibration blank (ICB).
- For samples L20SS07-EPA and L20SS08-EPA, thallium results were qualified (UJ) due to contamination in ICB.

**Mr. Gary Miller**

**7 June 2007**

**Page 2**

- All mercury results were qualified (UJ) due to contamination in method blank.
- For samples L19SS11-EPA, L19SS05-EPA, L20SS07-EPA, and L20SS08-EPA, antimony data were qualified with potential low bias (J-) due to low matrix spike and matrix duplicate recoveries.
- For samples L19SS11-EPA, L19SS05-EPA, L20SS07-EPA, and L20SS08-EPA, nickel results were qualified (J) due to elevated %D in serial dilution calculations.

EA will also transmit the electronic version of the electronic data deliverable and associated analytical data package to EPA via e-mail.

EA will also transmit an electronic version of this submittal to EPA via e-mail.

If you have any questions regarding this submittal, please call me at (972) 459-5040.

Sincerely,



Luis Vega  
Project Manager

Enclosure

cc: Cora Stanley, EPA Contracting Officer (letter only)  
Rena McClurg, EPA Project Officer (letter only)  
Fritz Meyer, EA Program Manager (letter only via e-mail)  
Jeff Hills, EA Financial Manager (letter only via e-mail)  
File



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## Certificate of Analysis

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### ANALYTICAL REPORT

PROJECT NO. 1434206 EPA

Gulfco Marine EP-W-06-004

Lot #: I7D120264

Luis Vega

EA Engineering, Science and Te  
405 South Highway 121  
Building C  
Suite 100  
Lewisville, TX 75067

SEVERN TRENT LABORATORIES, INC.

A handwritten signature in black ink that reads "Neal J. Salcher".

Neal J. Salcher  
Project Manager

April 30, 2007

American Council of Independent Laboratories  
International Association of Environmental Testing Laboratories

Case Narrative

STL LOT NUMBER: I7D120264

This report contains the analytical results for the five samples received under chain of custody by Severn Trent Laboratories (STL) on April 12, 2007. These samples are associated with your Gulfco Marine EP-W-06-004 project.

All samples were received in good condition and within temperature requirements.

All applicable quality control procedures met method-specified acceptance criteria except where noted in the case narrative or flagged on the result pages.

This report shall not be reproduced except in full, without the written approval of the laboratory.

If you have any questions, please feel free to call me at 512-310-5215.

Method 8081 for Chlorinated Pesticides was performed by STL Denver, 4955 Yarrow Street, Arvada, CO 80002, 303-421-6611.

LOT NUMBER I7D120264

**Nonconformance 09-0021532**

**Affected Samples:**

I7D120264 (1):

**Affected Methods:**

6020

**Case Narrative:**

*The serial dilution by ICPMS exceeded the tolerance limits for lead (Pb).*

*Nickel*

**Corrective Action:**

*The post digestion spike recovery was acceptable. Data flagged and NCM written.*

**Nonconformance 09-0021533**

**Affected Samples:**

I7D120264 (1):

**Affected Methods:**

6020

**Case Narrative:**

*The analyte [nickel] is present at a reportable level in the associated method blank but the concentration in the samples is greater than 10 times the method blank contamination.*

**Corrective Action:**  
Data flagged and NCM written.

**Nonconformance 04-0110248**

**Affected Samples:**  
I7D120264 (5): BSS-8-EPA

**Affected Methods:**  
8081A

**Case Narrative:**

The overall mean %D is within control limits. Therefore, the CCV is in control. Method 8000B requires notification of individual compounds exceeding %D limits, and they include:

1st CCV: all okay

2nd CCV: all okay

3rd CCV: (front) all okay  
(rear) 4,4'-DDT - 24%; Methoxychlor -25%

4th CCV: (front) Methoxychlor -19%  
(rear) 4,4'-DDT -27%; Methoxychlor -30%

Sequence: 1st CCV, LCS, 2nd CCV, 3rd CCV, 264-5, 264-5MS, 264-5MSD, Blank, 4th CCV.

Associated sample was ND.

**Corrective Action:**  
NA

## NOMENCLATURE

### LIMS

Five (5) characters with an alpha suffix.

-----	B	Method Blank
-----	C	Laboratory Control Sample
-----	L	Laboratory Control Sample Duplicate (optional)
-----	S	Matrix Spike
-----	D	Matrix Spike Duplicate
-----	X	Sample Duplicate (as requested)

### ICP/MS( 6020) INSTRUMENT

QC Std #1	ICV (Initial Calibration Verification)
QC Std #2	ICB (initial Calibration Blank)
QC Std #3	LLCk Std (Low-level Check Standard for TRRP only)
QC Std #4	ICSA (Interference Check Standard – Interfering Elements)
QC Std #5	ICSAB (Interference Check Standard – Analytes and Interferants)
QC Std #6	CCV (Continuing Calibration Verification)
QC Std #7	CCB (Continuing Calibration Blank)
SD5X	Serial Dilution
AS1.04X	Analytical Spike

## EXECUTIVE SUMMARY - Detection Highlights

I7D120264

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>L19SS11-EPA 04/10/07 10:06 001</b>				
Silver	0.073 B,J	1.3	mg/kg	SW846 6020
Aluminum	17400	128	mg/kg	SW846 6020
Arsenic	2.8	1.3	mg/kg	SW846 6020
Barium	102 J	1.3	mg/kg	SW846 6020
Beryllium	0.75 B	1.3	mg/kg	SW846 6020
Cadmium	0.19 B	1.3	mg/kg	SW846 6020
Cobalt	6.2	1.3	mg/kg	SW846 6020
Copper	13.0	1.3	mg/kg	SW846 6020
Iron	15900 J	64.0	mg/kg	SW846 6020
Lithium	16.3	10.2	mg/kg	SW846 6020
Manganese	200	1.3	mg/kg	SW846 6020
Nickel	15.4 J,L	1.3	mg/kg	SW846 6020
Lead	15.6	1.3	mg/kg	SW846 6020
Antimony	0.15 B,J	1.3	mg/kg	SW846 6020
Titanium	120 J	12.8	mg/kg	SW846 6020
Thallium	0.30 B	1.3	mg/kg	SW846 6020
Zinc	78.9	12.8	mg/kg	SW846 6020
Mercury	0.015 B,J	0.14	mg/kg	SW846 7471A
Boron	32.1	25.5	mg/kg	SW846 6010B
Percent Moisture	38.0	0.50	%	ASTM D 2216-90
<b>L19SS05-EPA 04/10/07 10:15 002</b>				
Silver	0.054 B,J	1.2	mg/kg	SW846 6020
Aluminum	23700	117	mg/kg	SW846 6020
Arsenic	3.2	1.2	mg/kg	SW846 6020
Barium	123 J	1.2	mg/kg	SW846 6020
Beryllium	0.93 B	1.2	mg/kg	SW846 6020
Cadmium	0.14 B	1.2	mg/kg	SW846 6020
Cobalt	7.6	1.2	mg/kg	SW846 6020
Copper	15.2	1.2	mg/kg	SW846 6020
Iron	20500 J	58.6	mg/kg	SW846 6020
Lithium	20.6	9.4	mg/kg	SW846 6020
Manganese	188	1.2	mg/kg	SW846 6020
Nickel	19.1 J	1.2	mg/kg	SW846 6020
Lead	16.8	1.2	mg/kg	SW846 6020
Antimony	0.11 B,J	1.2	mg/kg	SW846 6020
Selenium	0.40 B	1.2	mg/kg	SW846 6020
Titanium	122 J	11.7	mg/kg	SW846 6020
Thallium	0.26 B	1.2	mg/kg	SW846 6020
Zinc	82.2	11.7	mg/kg	SW846 6020
Mercury	0.021 B,J	0.16	mg/kg	SW846 7471A
Boron	38.9	23.5	mg/kg	SW846 6010B

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## EXECUTIVE SUMMARY - Detection Highlights

I7D120264

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
<b>L19SS05-EPA 04/10/07 10:15 002</b>				
Percent Moisture	36.9	0.50	%	ASTM D 2216-90
<b>L20SS07-EPA 04/10/07 08:08 003</b>				
Aluminum	4090	83.5	mg/kg	SW846 6020
Arsenic	1.5	0.84	mg/kg	SW846 6020
Barium	139 J	0.84	mg/kg	SW846 6020
Beryllium	0.17 B	0.84	mg/kg	SW846 6020
Cadmium	0.15 B	0.84	mg/kg	SW846 6020
Cobalt	1.9	0.84	mg/kg	SW846 6020
Copper	19.3	0.84	mg/kg	SW846 6020
Iron	8220 J	41.8	mg/kg	SW846 6020
Lithium	4.6 B	6.7	mg/kg	SW846 6020
Manganese	149	0.84	mg/kg	SW846 6020
Nickel	7.9 J	0.84	mg/kg	SW846 6020
Lead	19.5	0.84	mg/kg	SW846 6020
Antimony	0.12 B, J	0.84	mg/kg	SW846 6020
Selenium	0.14 B	0.84	mg/kg	SW846 6020
Titanium	448 J	8.4	mg/kg	SW846 6020
Thallium	0.042 B	0.84	mg/kg	SW846 6020
Zinc	169	8.4	mg/kg	SW846 6020
Mercury	0.0055	0.099	mg/kg	SW846 7471A
Qualifiers: B, J				
Boron	13.3 B	16.5	mg/kg	SW846 6010B
Percent Moisture	15.1	0.50	%	ASTM D 2216-90
<b>L20SS08-EPA 04/10/07 08:18 004</b>				
Silver	0.039 B, J	0.95	mg/kg	SW846 6020
Aluminum	10600	95.0	mg/kg	SW846 6020
Arsenic	11.7	0.95	mg/kg	SW846 6020
Barium	110 J	0.95	mg/kg	SW846 6020
Beryllium	0.40 B	0.95	mg/kg	SW846 6020
Cadmium	0.41 B	0.95	mg/kg	SW846 6020
Cobalt	5.3	0.95	mg/kg	SW846 6020
Copper	111	0.95	mg/kg	SW846 6020
Iron	41500 J	47.5	mg/kg	SW846 6020
Lithium	9.4	7.6	mg/kg	SW846 6020
Manganese	478	0.95	mg/kg	SW846 6020
Nickel	19.2 J	0.95	mg/kg	SW846 6020
Lead	70.7	0.95	mg/kg	SW846 6020
Antimony	0.18 B, J	0.95	mg/kg	SW846 6020
Titanium	445 J	9.5	mg/kg	SW846 6020

(Continued on next page)

## EXECUTIVE SUMMARY - Detection Highlights

I7D120264

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
<b>L20SS08-EPA 04/10/07 08:18 004</b>				
Thallium	0.10 B	0.95	mg/kg	SW846 6020
Zinc	180	9.5	mg/kg	SW846 6020
Mercury	0.084 B,J	0.12	mg/kg	SW846 7471A
Boron	18.5 B	18.9	mg/kg	SW846 6010B
Percent Moisture	15.2	0.50	%	ASTM D 2216-90
<b>BSS-8-EPA 04/09/07 14:55 005</b>				
Silver	0.066 B,J	1.5	mg/kg	SW846 6020
Aluminum	36600	151	mg/kg	SW846 6020
Arsenic	6.1	1.5	mg/kg	SW846 6020
Barium	274 J	1.5	mg/kg	SW846 6020
Beryllium	1.4 B	1.5	mg/kg	SW846 6020
Cadmium	0.17 B	1.5	mg/kg	SW846 6020
Cobalt	12.0	1.5	mg/kg	SW846 6020
Copper	18.9	1.5	mg/kg	SW846 6020
Iron	32600 J	75.3	mg/kg	SW846 6020
Lithium	33.3	12.0	mg/kg	SW846 6020
Manganese	672	1.5	mg/kg	SW846 6020
Nickel	28.3 J	1.5	mg/kg	SW846 6020
Lead	18.4	1.5	mg/kg	SW846 6020
Antimony	0.14 B,J	1.5	mg/kg	SW846 6020
Selenium	0.24 B	1.5	mg/kg	SW846 6020
Titanium	281 J	15.1	mg/kg	SW846 6020
Thallium	0.36 B	1.5	mg/kg	SW846 6020
Zinc	89.9	15.1	mg/kg	SW846 6020
Mercury	0.018 B,J	0.14	mg/kg	SW846 7471A
Boron	59.3	30.1	mg/kg	SW846 6010B
Benzoic acid	440 J	2600	ug/kg	SW846 8270C
Percent Moisture	35.6	0.50	%	ASTM D 2216-90

-

## PREPARATION METHODS SUMMARY

I7D120264

<u>PREPARATION DESCRIPTION</u>	<u>PREPARATION METHOD</u>	<u>ANALYTICAL METHOD</u>
Acid Digestion of Sediments, Sludges, Soils	SW846 3050B	SW846 6010B
Acid Digestion of Sediments, Sludges, Soils	SW846 3050B	SW846 6020
Low Concentration Ultrasonic Extraction	SW846 3550B	SW846 8081A
Low Concentration Ultrasonic Extraction	SW846 3550B	SW846 8270C
Mercury sample preparation	SW846 7471A	SW846 7471A
Moisture, Percent-No Sample Preparation	ASTM D2216-90	ASTM D 2216-90

### References:

ASTM Annual Book Of ASTM Standards.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## ANALYTICAL METHODS SUMMARY

I7D120264

PARAMETER	ANALYTICAL METHOD
ICP-MS (6020)	SW846 6020
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Method for Determination of Water Content of Soil	ASTM D 2216-90
Organochlorine Pesticides	SW846 8081A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B

### References:

ASTM Annual Book Of ASTM Standards.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

**METHOD / ANALYST SUMMARY**

I7D120264

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
ASTM D 2216-90	William Jenkins	000069
SW846 6010B	Hamid Davoudi	038010
SW846 6020	Xavier B. Escobar	038011
SW846 7471A	Sydney F. Powers	402637
SW846 8081A	Carrie Lahr	008835
SW846 8270C	Mark Malloy	001515

**References:**

ASTM Annual Book Of ASTM Standards.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## SAMPLE SUMMARY

I7D120264

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
JTR30	001	L19SS11-EPA	04/10/07	10:06
JTR39	002	L19SS05-EPA	04/10/07	10:15
JTR4C	003	L20SS07-EPA	04/10/07	08:08
JTR4F	004	L20SS08-EPA	04/10/07	08:18
JTR4J	005	BSS-8-EPA	04/09/07	14:55

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

# QC DATA ASSOCIATION SUMMARY

I7D120264

## Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	SOLID	SW846 6020		7109235	7109174
	SOLID	ASTM D 2216-90		7102440	7102246
	SOLID	SW846 7471A		7114205	7114141
	SOLID	SW846 6010B		7109239	7109177
002	SOLID	SW846 6020		7109235	7109174
	SOLID	ASTM D 2216-90		7102440	7102246
	SOLID	SW846 7471A		7114205	7114141
	SOLID	SW846 6010B		7109239	7109177
003	SOLID	SW846 6020		7109235	7109174
	SOLID	ASTM D 2216-90		7102446	7102247
	SOLID	SW846 7471A		7114205	7114141
	SOLID	SW846 6010B		7109239	7109177
004	SOLID	SW846 6020		7109235	7109174
	SOLID	ASTM D 2216-90		7102446	7102247
	SOLID	SW846 7471A		7114205	7114141
	SOLID	SW846 6010B		7109239	7109177
005	SOLID	SW846 6020		7109235	7109174
	SOLID	ASTM D 2216-90		7102446	7102247
	SOLID	SW846 7471A		7114205	7114141
	SOLID	SW846 8081A		7107012	7107003
	SOLID	SW846 8270C		7111144	7111091
	SOLID	SW846 6010B		7109239	7109177

## EA Engineering, Science and Technology

Client Sample ID: L19SS11-EPA

## TOTAL Metals

Lot-Sample #....: I7D120264-001 Matrix.....: SOLID  
 Date Sampled...: 04/10/07 10:06 Date Received...: 04/12/07  
 % Moisture.....: 38

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....:	7109235					
Silver	0.073 B,J	1.3	mg/kg	SW846 6020	04/19-04/23/07 JTR301AD	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.026	
Aluminum	17400	128	mg/kg	SW846 6020	04/19-04/23/07 JTR301AE	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 10.3	
Arsenic	2.8	1.3	mg/kg	SW846 6020	04/19-04/23/07 JTR301AF	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.075	
Barium	102 J	1.3	mg/kg	SW846 6020	04/19-04/23/07 JTR301AG	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.090	
Beryllium	0.75 B	1.3	mg/kg	SW846 6020	04/19-04/23/07 JTR301AH	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.064	
Cadmium	0.19 B	1.3	mg/kg	SW846 6020	04/19-04/23/07 JTR301AJ	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.054	
Cobalt	6.2	1.3	mg/kg	SW846 6020	04/19-04/23/07 JTR301AK	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.041	
Copper	13.0	1.3	mg/kg	SW846 6020	04/19-04/23/07 JTR301AL	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.35	
Iron	15900 J	64.0	mg/kg	SW846 6020	04/19-04/23/07 JTR301AM	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 38.2	
Lithium	16.3	10.2	mg/kg	SW846 6020	04/19-04/23/07 JTR301AN	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.35	
Manganese	200	1.3	mg/kg	SW846 6020	04/19-04/23/07 JTR301AP	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.33	
Nickel	15.4 J,L	1.3	mg/kg	SW846 6020	04/19-04/23/07 JTR301AQ	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.14	
Lead	15.6	1.3	mg/kg	SW846 6020	04/19-04/23/07 JTR301AR	
		Dilution Factor: 7.93		Analysis Time...: 18:11	MDL.....: 0.051	

(Continued on next page)

## EA Engineering, Science and Technology

Client Sample ID: L19SS11-EPA

## TOTAL Metals

Lot-Sample #...: I7D120264-001

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Antimony	0.15 B,J	1.3	mg/kg	SW846 6020	Analysis Time...: 18:11	04/19-04/23/07	JTR301AT
		Dilution Factor: 7.93				MDL.....: 0.049	
Selenium	ND	1.3	mg/kg	SW846 6020	Analysis Time...: 18:11	04/19-04/23/07	JTR301AU
		Dilution Factor: 7.93				MDL.....: 0.16	
Titanium	120 J	12.8	mg/kg	SW846 6020	Analysis Time...: 18:11	04/19-04/23/07	JTR301AV
		Dilution Factor: 7.93				MDL.....: 0.28	
Thallium	0.30 B	1.3	mg/kg	SW846 6020	Analysis Time...: 18:11	04/19-04/23/07	JTR301AW
		Dilution Factor: 7.93				MDL.....: 0.018	
Zinc	78.9	12.8	mg/kg	SW846 6020	Analysis Time...: 18:11	04/19-04/23/07	JTR301AX
		Dilution Factor: 7.93				MDL.....: 3.5	

Prep Batch #...: 7109239

Boron	32.1	25.5	mg/kg	SW846 6010B	04/19-04/20/07	JTR301AO
		Dilution Factor: 0.79		Analysis Time...: 12:56	MDL.....: 0.39	

Prep Batch #...: 7114205

Mercury	0.015 B,J	0.14	mg/kg	SW846 7471A	04/24/07	JTR301AC
		Dilution Factor: 0.89		Analysis Time...: 17:32	MDL.....: 0.0027	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

L Serial dilution of a digestate in the analytical batch indicates that physical and chemical interferences are present.

## EA Engineering, Science and Technology

Client Sample ID: L19SS11-EPA

## General Chemistry

Lot-Sample #....: I7D120264-001 Work Order #....: JTR30 Matrix.....: SOLID  
Date Sampled....: 04/10/07 10:06 Date Received...: 04/12/07  
% Moisture.....: 38

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
Percent Moisture	38.0	0.50	%	ASTM D 2216-90	ANALYSIS DATE	BATCH #
		Dilution Factor:	1	Analysis Time..: 17:08	04/12/07	7102440
					MDL.....	: 0.0

## EA Engineering, Science and Technology

Client Sample ID: L19SS05-EPA

## TOTAL Metals

Lot-Sample #....: I7D120264-002 Matrix.....: SOLID  
 Date Sampled...: 04/10/07 10:15 Date Received...: 04/12/07  
 % Moisture.....: 37

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....:	7109235					
Silver	0.054 B,J	1.2	mg/kg	SW846 6020	04/19-04/23/07	JTR391AD
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.023
Aluminum	23700	117	mg/kg	SW846 6020	04/19-04/23/07	JTR391AE
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 9.5
Arsenic	3.2	1.2	mg/kg	SW846 6020	04/19-04/23/07	JTR391AF
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.069
Barium	123 J	1.2	mg/kg	SW846 6020	04/19-04/23/07	JTR391AG
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.082
Beryllium	0.93 B	1.2	mg/kg	SW846 6020	04/19-04/23/07	JTR391AH
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.059
Cadmium	0.14 B	1.2	mg/kg	SW846 6020	04/19-04/23/07	JTR391AJ
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.049
Cobalt	7.6	1.2	mg/kg	SW846 6020	04/19-04/23/07	JTR391AK
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.038
Copper	15.2	1.2	mg/kg	SW846 6020	04/19-04/23/07	JTR391AL
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.32
Iron	20500 J	58.6	mg/kg	SW846 6020	04/19-04/23/07	JTR391AM
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 35.0
Lithium	20.6	9.4	mg/kg	SW846 6020	04/19-04/23/07	JTR391AN
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.32
Manganese	188	1.2	mg/kg	SW846 6020	04/19-04/23/07	JTR391AP
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.30
Nickel	19.1 J	1.2	mg/kg	SW846 6020	04/19-04/23/07	JTR391AQ
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.13
Lead	16.8	1.2	mg/kg	SW846 6020	04/19-04/23/07	JTR391AR
		Dilution Factor: 7.4		Analysis Time...: 18:36	MDL.....	: 0.047

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## EA Engineering, Science and Technology

Client Sample ID: L19SS05-EPA

## TOTAL Metals

Lot-Sample #...: I7D120264-002

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Antimony	0.11 B,J	1.2	mg/kg	SW846 6020	Analysis Time...: 18:36	04/19-04/23/07	JTR391AT
		Dilution Factor: 7.4				MDL.....: 0.045	
Selenium	0.40 B	1.2	mg/kg	SW846 6020	Analysis Time...: 18:36	04/19-04/23/07	JTR391AU
		Dilution Factor: 7.4				MDL.....: 0.15	
Titanium	122 J	11.7	mg/kg	SW846 6020	Analysis Time...: 18:36	04/19-04/23/07	JTR391AV
		Dilution Factor: 7.4				MDL.....: 0.26	
Thallium	0.26 B	1.2	mg/kg	SW846 6020	Analysis Time...: 18:36	04/19-04/23/07	JTR391AW
		Dilution Factor: 7.4				MDL.....: 0.016	
Zinc	82.2	11.7	mg/kg	SW846 6020	Analysis Time...: 18:36	04/19-04/23/07	JTR391AX
		Dilution Factor: 7.4				MDL.....: 3.3	

Prep Batch #...: 7109239

Boron	38.9	23.5	mg/kg	SW846 6010B	04/19-04/20/07	JTR391A0
		Dilution Factor: 0.74		Analysis Time...: 13:20	MDL.....: 0.36	

Prep Batch #...: 7114205

Mercury	0.021 B,J	0.16	mg/kg	SW846 7471A	04/24/07	JTR391AC
		Dilution Factor: 0.98		Analysis Time...: 17:36	MDL.....: 0.0030	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

EA Engineering, Science and Technology

Client Sample ID: L19SS05-EPA

General Chemistry

Lot-Sample #....: I7D120264-002 Work Order #....: JTR39 Matrix.....: SOLID  
Date Sampled...: 04/10/07 10:15 Date Received...: 04/12/07  
% Moisture.....: 37

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
Percent Moisture	36.9	0.50	%	ASTM D 2216-90	ANALYSIS DATE	BATCH #
		Dilution Factor:	1		04/12/07	7102440
				Analysis Time..:	17:10	MDL.....: 0.0

## EA Engineering, Science and Technology

Client Sample ID: L20SS07-EPA

## TOTAL Metals

Lot-Sample #....: I7D120264-003  
 Date Sampled...: 04/10/07 08:08 Date Received...: 04/12/07  
 % Moisture.....: 15 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
Prep Batch #....:	7109235					
Silver	ND	0.84	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AD
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.017
Aluminum	4090	83.5	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AE
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 6.7
Arsenic	1.5	0.84	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AF
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.049
Barium	139 J	0.84	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AG
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.058
Beryllium	0.17 B	0.84	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AH
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.042
Cadmium	0.15 B	0.84	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AJ
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.035
Cobalt	1.9	0.84	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AK
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.027
Copper	19.3	0.84	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AL
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.23
Iron	8220 J	41.8	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AM
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 24.9
Lithium	4.6 B	6.7	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AN
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.23
Manganese	149	0.84	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AP
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.21
Nickel	7.9 J	0.84	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AQ
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.090
Lead	19.5	0.84	mg/kg	SW846 6020	04/19-04/23/07	JTR4C1AR
		Dilution Factor: 7.09		Analysis Time...: 18:41	MDL.....	: 0.033

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## EA Engineering, Science and Technology

Client Sample ID: L20SS07-EPA

## TOTAL Metals

Lot-Sample #....: I7D120264-003

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Antimony	0.12 B,J	0.84	mg/kg	SW846 6020	Analysis Time...: 18:41	04/19-04/23/07	JTR4C1AT
		Dilution Factor: 7.09				MDL.....: 0.032	
Selenium	0.14 B	0.84	mg/kg	SW846 6020	Analysis Time...: 18:41	04/19-04/23/07	JTR4C1AU
		Dilution Factor: 7.09				MDL.....: 0.11	
Titanium	448 J	8.4	mg/kg	SW846 6020	Analysis Time...: 18:41	04/19-04/23/07	JTR4C1AV
		Dilution Factor: 7.09				MDL.....: 0.18	
Thallium	0.042 B	0.84	mg/kg	SW846 6020	Analysis Time...: 18:41	04/19-04/23/07	JTR4C1AW
		Dilution Factor: 7.09				MDL.....: 0.012	
Zinc	169	8.4	mg/kg	SW846 6020	Analysis Time...: 18:41	04/19-04/23/07	JTR4C1AX
		Dilution Factor: 7.09				MDL.....: 2.3	

Prep Batch #....: 7109239

Boron	13.3 B	16.5	mg/kg	SW846 6010B	04/19-04/20/07	JTR4C1A0
		Dilution Factor: 0.7		Analysis Time...: 13:24	MDL.....: 0.25	

Prep Batch #....: 7114205

Mercury	0.0055 B,J	0.099	mg/kg	SW846 7471A	04/24/07	JTR4C1AC
		Dilution Factor: 0.84		Analysis Time...: 17:37	MDL.....: 0.0019	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

EA Engineering, Science and Technology

Client Sample ID: L20SS07-EPA

General Chemistry

Lot-Sample #....: I7D120264-003 Work Order #....: JTR4C Matrix.....: SOLID  
Date Sampled...: 04/10/07 08:08 Date Received...: 04/12/07  
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP	BATCH #
					ANALYSIS DATE		
Percent Moisture	15.1	0.50	%	ASTM D 2216-90	04/12/07	7102446	
		Dilution Factor:	1	Analysis Time...: 17:30		MDL.....: 0.0	

## EA Engineering, Science and Technology

Client Sample ID: L20SS08-EPA

## TOTAL Metals

Lot-Sample #....: I7D120264-004 Matrix.....: SOLID  
 Date Sampled...: 04/10/07 08:18 Date Received...: 04/12/07  
 % Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #....:	7109235					
Silver	0.039 B,J	0.95	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AD	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.019	
Aluminum	10600	95.0	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AE	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 7.7	
Arsenic	11.7	0.95	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AF	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.056	
Barium	110 J	0.95	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AG	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.067	
Beryllium	0.40 B	0.95	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AH	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.048	
Cadmium	0.41 B	0.95	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AJ	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.040	
Cobalt	5.3	0.95	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AK	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.030	
Copper	111	0.95	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AL	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.26	
Iron	41500 J	47.5	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AM	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 28.4	
Lithium	9.4	7.6	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AN	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.26	
Manganese	478	0.95	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AP	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.24	
Nickel	19.2 J	0.95	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AQ	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.10	
Lead	70.7	0.95	mg/kg	SW846 6020	04/19-04/23/07 JTR4F1AR	
		Dilution Factor: 8.06		Analysis Time...: 18:46	MDL.....: 0.038	

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EA Engineering, Science and Technology

Client Sample ID: L20SS08-EPA

**TOTAL Metals**

Lot-Sample #....: I7D120264-004

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>			<u>METHOD</u>	<u>PREPARATION-</u> <u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
		<u>LIMIT</u>	<u>UNITS</u>	<u>Dilution Factor:</u>			
Antimony	0.18 B,J	0.95	mg/kg	8.06	SW846 6020	Analysis Time..: 18:46	04/19-04/23/07 JTR4F1AT MDL.....: 0.036
Selenium	ND	0.95	mg/kg	8.06	SW846 6020	Analysis Time..: 18:46	04/19-04/23/07 JTR4F1AU MDL.....: 0.12
Titanium	445 J	9.5	mg/kg	8.06	SW846 6020	Analysis Time..: 18:46	04/19-04/23/07 JTR4F1AV MDL.....: 0.21
Thallium	0.10 B	0.95	mg/kg	8.06	SW846 6020	Analysis Time..: 18:46	04/19-04/23/07 JTR4F1AW MDL.....: 0.013
Zinc	1.80	9.5	mg/kg	8.06	SW846 6020	Analysis Time..: 18:46	04/19-04/23/07 JTR4F1AX MDL.....: 2.6

Prep Batch #....: 7109239

Boron	18.5 B	18.9	mg/kg	SW846 6010B	04/19-04/20/07 JTR4F1A0
		Dilution Factor: 0.8		Analysis Time..: 13:38	MDL.....: 0.29

Prep Batch #....: 7114205

Mercury	0.084 B,J	0.12	mg/kg	SW846 7471A	04/24/07
		Dilution Factor: 0.98		Analysis Time..: 17:39	MDL.....: 0.0022

**NOTE (S) :**

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

EA Engineering, Science and Technology

Client Sample ID: L20SS08-EPA

General Chemistry

Lot-Sample #....: I7D120264-004    Work Order #....: JTR4F                Matrix.....: SOLID  
Date Sampled...: 04/10/07 08:18    Date Received...: 04/12/07  
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
					ANALYSIS DATE	BATCH #
Percent Moisture	15.2	0.50	%	ASTM D 2216-90	04/12/07	7102446
		Dilution Factor: 1		Analysis Time..: 17:32		MDL.....: 0.0

## EA Engineering, Science and Technology

Client Sample ID: BSS-8-EPA

## GC/MS Semivolatiles

Lot-Sample #....: I7D120264-005 Work Order #....: JTR4J1A1 Matrix.....: SOLID  
 Date Sampled...: 04/09/07 14:55 Date Received...: 04/12/07  
 Prep Date.....: 04/21/07 Analysis Date...: 04/26/07  
 Prep Batch #....: 7111144 Analysis Time...: 17:05  
 Dilution Factor: 1  
 % Moisture.....: 36 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	510	ug/kg	15
Acenaphthylene	ND	510	ug/kg	10
Acetophenone	ND	510	ug/kg	22
Aniline	ND	510	ug/kg	33
Anthracene	ND	510	ug/kg	9.9
Atrazine	ND	510	ug/kg	0.0
Benzaldehyde	ND	510	ug/kg	0.0
Benzidine	ND	2600	ug/kg	130
Benzo(a)anthracene	ND	510	ug/kg	14
Benzo(b)fluoranthene	ND	510	ug/kg	19
Benzo(k)fluoranthene	ND	510	ug/kg	17
Benzoic acid	440 J	2600	ug/kg	170
Benzo(ghi)perylene	ND	510	ug/kg	21
Benzo(a)pyrene	ND	510	ug/kg	9.8
Benzyl alcohol	ND	510	ug/kg	37
Biphenyl	ND	510	ug/kg	34
bis(2-Chloroethoxy) methane	ND	510	ug/kg	18
bis(2-Chloroethyl)- ether	ND	510	ug/kg	22
bis(2-Chloroisopropyl) ether	ND	510	ug/kg	25
bis(2-Ethylhexyl) phthalate	ND	510	ug/kg	43
4-Bromophenyl phenyl ether	ND	510	ug/kg	17
Butyl benzyl phthalate	ND	510	ug/kg	40
Caprolactam	ND	510	ug/kg	0.0
Carbazole	ND	510	ug/kg	18
4-Chloroaniline	ND	510	ug/kg	16
4-Chloro-3-methylphenol	ND	510	ug/kg	23
2-Choronaphthalene	ND	510	ug/kg	17
2-Chlorophenol	ND	510	ug/kg	17
4-Chlorophenyl phenyl ether	ND	510	ug/kg	19
Chrysene	ND	510	ug/kg	17
Dibenz(a, h)anthracene	ND	510	ug/kg	20
Dibenzofuran	ND	510	ug/kg	17

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## EA Engineering, Science and Technology

Client Sample ID: BSS-8-EPA

## GC/MS Semivolatiles

Lot-Sample #....: I7D120264-005 Work Order #....: JTR4J1A1 Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Di-n-butyl phthalate	ND	510	ug/kg	13
3,3'-Dichlorobenzidine	ND	2600	ug/kg	49
2,4-Dichlorophenol	ND	510	ug/kg	22
Diethyl phthalate	ND	510	ug/kg	12
2,4-Dimethylphenol	ND	510	ug/kg	18
Dimethyl phthalate	ND	510	ug/kg	35
4,6-Dinitro- 2-methylphenol	ND	2600	ug/kg	410
2,4-Dinitrophenol	ND	2600	ug/kg	340
2,4-Dinitrotoluene	ND	510	ug/kg	48
2,6-Dinitrotoluene	ND	510	ug/kg	80
Di-n-octyl phthalate	ND	510	ug/kg	25
1,2-Diphenylhydrazine (as Azobenzene)	ND	510	ug/kg	9.8
Fluoranthene	ND	510	ug/kg	14
Fluorene	ND	510	ug/kg	18
Hexachlorobenzene	ND	510	ug/kg	15
Hexachlorocyclopenta- diene	ND	2600	ug/kg	420
Hexachloroethane	ND	510	ug/kg	21
Indeno(1,2,3-cd)pyrene	ND	510	ug/kg	19
Isophorone	ND	510	ug/kg	21
2-Methylnaphthalene	ND	510	ug/kg	19
2-Methylphenol	ND	510	ug/kg	19
2-Nitroaniline	ND	510	ug/kg	20
3-Nitroaniline	ND	510	ug/kg	51
4-Nitroaniline	ND	510	ug/kg	59
Nitrobenzene	ND	510	ug/kg	26
2-Nitrophenol	ND	510	ug/kg	78
4-Nitrophenol	ND	2600	ug/kg	410
N-Nitrosodimethylamine	ND	510	ug/kg	15
N-Nitrosodiphenylamine	ND	510	ug/kg	56
N-Nitrosodi-n-propyl- amine	-	510	ug/kg	18
Phenanthrene	ND	510	ug/kg	18
Phenol	ND	510	ug/kg	19
Pyrene	ND	510	ug/kg	18
Pyridine	ND	510	ug/kg	60
2,4,5-Trichloro- phenol	ND	510	ug/kg	43
2,4,6-Trichloro- phenol	ND	510	ug/kg	56

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EA Engineering, Science and Technology

Client Sample ID: BSS-8-EPA

GC/MS Semivolatiles

Lot-Sample #....: I7D120264-005 Work Order #....: JTR4J1A1 Matrix.....: SOLID

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	72	(40 - 122)
2-Fluorobiphenyl	76	(42 - 129)
Terphenyl-d14	82	(44 - 127)
2-Fluorophenol	67	(36 - 114)
Phenol-d5	69	(38 - 125)
2,4,6-Tribromophenol	83	(42 - 136)

NOTE (S) :

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

EA Engineering, Science and Technology

Client Sample ID: BSS-8-EPA

GC Semivolatiles

Lot-Sample #....: I7D120264-005 Work Order #....: JTR4J1A2 Matrix.....: SOLID  
 Date Sampled....: 04/09/07 14:55 Date Received...: 04/12/07  
 Prep Date.....: 04/17/07 Analysis Date...: 04/21/07  
 Prep Batch #....: 7107012 Analysis Time...: 07:04  
 Dilution Factor: 1  
 % Moisture.....: 36 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
alpha-BHC	ND	2.6	ug/kg	0.33
beta-BHC	ND	2.6	ug/kg	0.44
delta-BHC	ND	2.6	ug/kg	0.26
gamma-BHC (Lindane)	ND	2.6	ug/kg	0.22
alpha-Chlordane	ND	2.6	ug/kg	0.50
gamma-Chlordane	ND	2.6	ug/kg	0.41
4,4'-DDD	ND	2.6	ug/kg	0.85
4,4'-DDE	ND	2.6	ug/kg	0.37
4,4'-DDT	ND - UJ	2.6	ug/kg	0.92
Dieldrin	ND	2.6	ug/kg	0.33
Endosulfan I	ND	2.6	ug/kg	0.27
Endosulfan II	ND	2.6	ug/kg	0.45
Endosulfan sulfate	ND	2.6	ug/kg	0.43
Endrin	ND	2.6	ug/kg	0.48
Endrin aldehyde	ND	2.6	ug/kg	0.33
Endrin ketone	ND	2.6	ug/kg	0.33
Heptachlor	ND	2.6	ug/kg	0.33
Heptachlor epoxide	ND	2.6	ug/kg	0.66
Methoxychlor	ND - UJ	5.1	ug/kg	0.70
Toxaphene	ND	260	ug/kg	25
Aldrin	ND	2.6	ug/kg	0.39
SURROGATE		PERCENT	RECOVERY	
		RECOVERY	LIMITS	
Decachlorobiphenyl	88		(49 - 130)	
Tetrachloro-m-xylene	91		(46 - 127)	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

## EA Engineering, Science and Technology

Client Sample ID: BSS-8-EPA

## TOTAL Metals

Lot-Sample #...: I7D120264-005 Matrix.....: SOLID  
 Date Sampled...: 04/09/07 14:55 Date Received..: 04/12/07  
 % Moisture.....: 36

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Prep Batch #...:	7109235						
Silver	0.066 B,J	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AE MDL.....: 0.030
		Dilution Factor: 9.7					
Aluminum	36600	151	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AF MDL.....: 12.1
		Dilution Factor: 9.7					
Arsenic	6.1	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AG MDL.....: 0.089
		Dilution Factor: 9.7					
Barium	274 J	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AH MDL.....: 0.11
		Dilution Factor: 9.7					
Beryllium	1.4 B	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AJ MDL.....: 0.075
		Dilution Factor: 9.7					
Cadmium	0.17 B	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AK MDL.....: 0.063
		Dilution Factor: 9.7					
Cobalt	12.0	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AL MDL.....: 0.048
		Dilution Factor: 9.7					
Copper	18.9	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AM MDL.....: 0.41
		Dilution Factor: 9.7					
Iron	32600 J	75.3	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AN MDL.....: 44.9
		Dilution Factor: 9.7					
Lithium	33.3	12.0	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AP MDL.....: 0.41
		Dilution Factor: 9.7					
Manganese	672	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AQ MDL.....: 0.39
		Dilution Factor: 9.7					
Nickel	28.3 J	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AR MDL.....: 0.16
		Dilution Factor: 9.7					
Lead	18.4	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AT MDL.....: 0.060
		Dilution Factor: 9.7					

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## EA Engineering, Science and Technology

Client Sample ID: BSS-8-EPA

## TOTAL Metals

Lot-Sample #....: I7D120264-005

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Antimony	0.14 B,J	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AU
		Dilution Factor: 9.7				MDL.....: 0.057	
Selenium	0.24 B	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AV
		Dilution Factor: 9.7				MDL.....: 0.19	
Titanium	281 J	15.1	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AW
		Dilution Factor: 9.7				MDL.....: 0.33	
Thallium	0.36 B	1.5	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AX
		Dilution Factor: 9.7				MDL.....: 0.021	
Zinc	89.9	15.1	mg/kg	SW846 6020	Analysis Time...: 19:01	04/19-04/23/07	JTR4J1AO
		Dilution Factor: 9.7				MDL.....: 4.2	
<hr/>							
Prep Batch #....: 7109239							
Boron	59.3	30.1	mg/kg	SW846 6010B	Analysis Time...: 13:43	04/19-04/20/07	JTR4J1AC
		Dilution Factor: 0.97				MDL.....: 0.46	
<hr/>							
Prep Batch #....: 7114205							
Mercury	0.018 B,J	0.14	mg/kg	SW846 7471A	Analysis Time...: 17:40	04/24/07	JTR4J1AD
		Dilution Factor: 0.92				MDL.....: 0.0027	

NOTE(S) :

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

EA Engineering, Science and Technology

Client Sample ID: BSS-8-EPA

General Chemistry

Lot-Sample #....: I7D120264-005 Work Order #....: JTR4J Matrix.....: SOLID  
Date Sampled...: 04/09/07 14:55 Date Received...: 04/12/07  
% Moisture.....: 36

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-	PREP
Percent Moisture	35.6	0.50	%	ASTM D 2216-90	ANALYSIS DATE	BATCH #
		Dilution Factor: 1		Analysis Time...: 17:34	04/12/07	7102446
					MDL.....	: 0.0

## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JVFLD1AA      Matrix.....: SOLID  
 MB Lot-Sample #: I7D210000-144  
 Analysis Date...: 04/26/07      Prep Date.....: 04/21/07      Analysis Time...: 13:48  
 Dilution Factor: 1      Prep Batch #: 7111144

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Acetophenone	ND	330	ug/kg	SW846 8270C
Aniline	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Atrazine	ND	330	ug/kg	SW846 8270C
Benzidine	ND	1700	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzoic acid	ND	1700	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzyl alcohol	ND	330	ug/kg	SW846 8270C
Biphenyl	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)- ether	ND	330	ug/kg	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1700	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C

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## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264

Work Order #....: JVFLD1AA

Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro- 2-methylphenol	ND	1700	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1700	ug/kg	SW846 8270C
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta- diene	ND	1700	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	330	ug/kg	SW846 8270C
3-Nitroaniline	ND	330	ug/kg	SW846 8270C
4-Nitroaniline	ND	330	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1700	ug/kg	SW846 8270C
N-Nitrosodimethylamine	ND	330	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
Pyridine	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro- phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro- phenol	-	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
1,2-Diphenylhydrazine (as Azobenzene)	ND	330	ug/kg	SW846 8270C
Benzaldehyde	ND	330	ug/kg	SW846 8270C
Caprolactam	ND	330	ug/kg	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Nitrobenzene-d5	74	(40 - 122)
2-Fluorobiphenyl	80	(42 - 129)
Terphenyl-d14	83	(44 - 127)

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## METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JVFLD1AA      Matrix.....: SOLID

<u>PARAMETER</u>	<u>RESULT</u>	REPORTING		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
2-Fluorophenol	71	(36 - 114)		
Phenol-d5	72	(38 - 125)		
2,4,6-Tribromophenol	81	(42 - 136)		

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

## GC Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JT1XD1AA      Matrix.....: SOLID  
 MB Lot-Sample #: D7D170000-012  
 Prep Date.....: 04/17/07      Analysis Time..: 07:53  
 Analysis Date...: 04/21/07      Prep Batch #: 7107012  
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Aldrin	ND	1.7	ug/kg	SW846 8081A
alpha-BHC	ND	1.7	ug/kg	SW846 8081A
beta-BHC	ND	1.7	ug/kg	SW846 8081A
delta-BHC	ND	1.7	ug/kg	SW846 8081A
gamma-BHC (Lindane)	ND	1.7	ug/kg	SW846 8081A
alpha-Chlordane	ND	1.7	ug/kg	SW846 8081A
gamma-Chlordane	ND	1.7	ug/kg	SW846 8081A
4,4'-DDD	ND	1.7	ug/kg	SW846 8081A
4,4'-DDE	ND	1.7	ug/kg	SW846 8081A
4,4'-DDT	ND	1.7	ug/kg	SW846 8081A
Dieldrin	ND	1.7	ug/kg	SW846 8081A
Endosulfan I	ND	1.7	ug/kg	SW846 8081A
Endosulfan II	ND	1.7	ug/kg	SW846 8081A
Endosulfan sulfate	ND	1.7	ug/kg	SW846 8081A
Endrin	ND	1.7	ug/kg	SW846 8081A
Endrin aldehyde	ND	1.7	ug/kg	SW846 8081A
Endrin ketone	ND	1.7	ug/kg	SW846 8081A
Heptachlor	ND	1.7	ug/kg	SW846 8081A
Heptachlor epoxide	ND	1.7	ug/kg	SW846 8081A
Methoxychlor	ND	3.3	ug/kg	SW846 8081A
Toxaphene	ND	170	ug/kg	SW846 8081A
<hr/>				
<u>SURROGATE</u>		PERCENT	RECOVERY	
		<u>RECOVERY</u>	<u>LIMITS</u>	
Decachlorobiphenyl		96	(49 - 130)	
Tetrachloro-m-xylene		99	(46 - 127)	

## NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## METHOD BLANK REPORT

## TOTAL Metals

Client Lot #....: I7D120264

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
<b>MB Lot-Sample #: I7D190000-235 Prep Batch #....: 7109235</b>							
Aluminum	ND	10.0	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AC
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Antimony	0.0042 B	0.10	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AQ
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Arsenic	ND	0.10	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AD
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Barium	0.016 B	0.10	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AE
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Beryllium	ND	0.10	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AF
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Cadmium	ND	0.10	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AG
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Cobalt	ND	0.10	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AH
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Copper	ND	0.10	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AJ
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Iron	4.6 B	- 5.0	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AK
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Lead	ND	0.10	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AP
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Lithium	ND	0.80	mg/kg	SW846 6020		04/19-04/23/07	JT8C01AL
		Dilution Factor: 1					
		Analysis Time...: 18:01					

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## METHOD BLANK REPORT

## TOTAL Metals

Client Lot #....: I7D120264

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
		LIMIT	UNITS				
Manganese	ND	0.10	mg/kg		SW846 6020	04/19-04/23/07	JT8C01AM
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Nickel	0.25	0.10	mg/kg		SW846 6020	04/19-04/23/07	JT8C01AN
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Selenium	ND	0.10	mg/kg		SW846 6020	04/19-04/23/07	JT8C01AR
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Silver	0.014 B	0.10	mg/kg		SW846 6020	04/19-04/23/07	JT8C01AA
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Thallium	ND	0.10	mg/kg		SW846 6020	04/19-04/23/07	JT8C01AU
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Titanium	0.022 B	1.0	mg/kg		SW846 6020	04/19-04/23/07	JT8C01AT
		Dilution Factor: 1					
		Analysis Time...: 18:01					
Zinc	ND	1.0	mg/kg		SW846 6020	04/19-04/23/07	JT8C01AV
		Dilution Factor: 1					
		Analysis Time...: 18:01					

MB Lot-Sample #: I7D190000-239 Prep Batch #....: 7109239

Boron	ND	20.0	mg/kg	SW846 6010B	04/19-04/20/07	JT8D21AA
-						

MB Lot-Sample #: I7D240000-205 Prep Batch #....: 7114205

Mercury	0.0024 B	0.10	mg/kg	SW846 7471A	04/24/07	JVH6G1AA
-						

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JVFLD1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: I7D210000-144    JVFLD1AD-LCSD  
 Prep Date.....: 04/21/07      Analysis Date...: 04/26/07  
 Prep Batch #....: 7111144      Analysis Time...: 14:19  
 Dilution Factor: 1

PARAMETER	PERCENT	RECOVERY	RPD	LIMITS	METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Acenaphthene	75	(58 - 104)			SW846 8270C
	80	(58 - 104)	6.1	(0-30)	SW846 8270C
Acenaphthylene	73	(59 - 104)			SW846 8270C
	77	(59 - 104)	5.3	(0-30)	SW846 8270C
Aniline	47	(25 - 98)			SW846 8270C
	52	(25 - 98)	9.6	(0-30)	SW846 8270C
Anthracene	76	(62 - 109)			SW846 8270C
	80	(62 - 109)	5.6	(0-30)	SW846 8270C
Benzo (a) anthracene	78	(59 - 109)			SW846 8270C
	80	(59 - 109)	3.0	(0-30)	SW846 8270C
Benzo (b) fluoranthene	77	(54 - 106)			SW846 8270C
	79	(54 - 106)	3.7	(0-30)	SW846 8270C
Benzo (k) fluoranthene	77	(56 - 124)			SW846 8270C
	83	(56 - 124)	8.5	(0-30)	SW846 8270C
Benzoic acid	56	(8.0- 111)			SW846 8270C
	58	(8.0- 111)	4.1	(0-30)	SW846 8270C
Benzo (ghi) perylene	75	(56 - 128)			SW846 8270C
	78	(56 - 128)	4.8	(0-30)	SW846 8270C
Benzo (a) pyrene	78	(60 - 109)			SW846 8270C
	83	(60 - 109)	6.6	(0-30)	SW846 8270C
Benzyl alcohol	76	(42 - 122)			SW846 8270C
	79	(42 - 122)	3.9	(0-30)	SW846 8270C
2-Chlorophenol	68	(43 - 107)			SW846 8270C
	71	(43 - 107)	4.4	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	74	(56 - 112)			SW846 8270C
	78	(56 - 112)	5.7	(0-30)	SW846 8270C
bis(2-Chloroethoxy) methane	74	(48 - 106)			SW846 8270C
	76	(48 - 106)	3.5	(0-30)	SW846 8270C
bis(2-Chloroethyl)- ether	70	(39 - 105)			SW846 8270C
	74	(39 - 105)	6.4	(0-30)	SW846 8270C
bis(2-Chloroisopropyl) ether	66	(43 - 103)			SW846 8270C
	69	(43 - 103)	5.1	(0-30)	SW846 8270C
bis(2-Ethylhexyl) phthalate	72	(60 - 106)			SW846 8270C
	75	(60 - 106)	4.3	(0-30)	SW846 8270C

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## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JVFLD1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: I7D210000-144                                    JVFLD1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS		RPD	LIMITS	METHOD
		RPD	LIMITS			
4-Bromophenyl phenyl ether	83	(59 - 115)				SW846 8270C
	89	(59 - 115)	6.5	(0-30)	SW846 8270C	
Butyl benzyl phthalate	85	(59 - 105)				SW846 8270C
	90	(59 - 105)	6.5	(0-30)	SW846 8270C	
Carbazole	76	(60 - 112)				SW846 8270C
	80	(60 - 112)	5.0	(0-30)	SW846 8270C	
4-Chloroaniline	48	(22 - 110)				SW846 8270C
	57	(22 - 110)	17	(0-30)	SW846 8270C	
2-Chloronaphthalene	74	(50 - 112)				SW846 8270C
	78	(50 - 112)	5.2	(0-30)	SW846 8270C	
4-Chlorophenyl phenyl ether	82	(59 - 104)				SW846 8270C
	88	(59 - 104)	6.9	(0-30)	SW846 8270C	
Chrysene	83	(61 - 110)				SW846 8270C
	88	(61 - 110)	5.3	(0-30)	SW846 8270C	
Dibenz (a, h) anthracene	69	(62 - 119)				SW846 8270C
	73	(62 - 119)	5.5	(0-30)	SW846 8270C	
Dibenzo furan	79	(58 - 103)				SW846 8270C
	84	(58 - 103)	6.8	(0-30)	SW846 8270C	
Di-n-butyl phthalate	74	(60 - 110)				SW846 8270C
	79	(60 - 110)	5.3	(0-30)	SW846 8270C	
3,3'-Dichlorobenzidine	65	(41 - 105)				SW846 8270C
	71	(41 - 105)	9.3	(0-30)	SW846 8270C	
2,4-Dichlorophenol	80	(50 - 107)				SW846 8270C
	86	(50 - 107)	6.3	(0-30)	SW846 8270C	
Diethyl phthalate	79	(59 - 107)				SW846 8270C
	86	(59 - 107)	8.4	(0-30)	SW846 8270C	
2,4-Dimethylphenol	69	(43 - 102)				SW846 8270C
	73	(43 - 102)	6.1	(0-30)	SW846 8270C	
Dimethyl phthalate	82	(58 - 106)				SW846 8270C
	88	(58 - 106)	8.1	(0-30)	SW846 8270C	
4,6-Dinitro-2-methylphenol	84	(42 - 121)				SW846 8270C
	88	(42 - 121)	4.8	(0-30)	SW846 8270C	
2,4-Dinitrophenol	65	(7.0- 113)				SW846 8270C
	65	(7.0- 113)	0.11	(0-30)	SW846 8270C	
2,4-Dinitrotoluene	88	(55 - 110)				SW846 8270C
	97	(55 - 110)	10	(0-30)	SW846 8270C	

(Continued on next page)

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #...: JVFLD1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: I7D210000-144      JVFLD1AD-LCSD

PARAMETER	PERCENT RECOVERY	RECOVERY		RPD	METHOD
		LIMITS	RPD		
2,6-Dinitrotoluene	81	(58 - 104)			SW846 8270C
	88	(58 - 104)	8.2	(0-30)	SW846 8270C
Di-n-octyl phthalate	82	(58 - 109)			SW846 8270C
	86	(58 - 109)	5.2	(0-30)	SW846 8270C
1,2-Diphenylhydrazine (as Azobenzene)	70	(53 - 128)			SW846 8270C
	74	(53 - 128)	5.3	(0-30)	SW846 8270C
Fluoranthene	78	(62 - 113)			SW846 8270C
	82	(62 - 113)	5.5	(0-30)	SW846 8270C
Fluorene	78	(60 - 107)			SW846 8270C
	83	(60 - 107)	6.6	(0-30)	SW846 8270C
Hexachlorobenzene	82	(62 - 107)			SW846 8270C
	87	(62 - 107)	5.6	(0-30)	SW846 8270C
Hexachlorocyclopenta- diene	55	(2.0- 111)			SW846 8270C
	57	(2.0- 111)	4.4	(0-30)	SW846 8270C
Hexachloroethane	66	(41 - 100)			SW846 8270C
	69	(41 - 100)	4.7	(0-30)	SW846 8270C
Indeno(1,2,3-cd)pyrene	71	(60 - 121)			SW846 8270C
	76	(60 - 121)	5.7	(0-30)	SW846 8270C
Isophorone	73	(49 - 110)			SW846 8270C
	76	(49 - 110)	3.9	(0-30)	SW846 8270C
2-Methylnaphthalene	75	(52 - 102)			SW846 8270C
	78	(52 - 102)	3.9	(0-30)	SW846 8270C
2-Methylphenol	69	(46 - 109)			SW846 8270C
	73	(46 - 109)	6.0	(0-30)	SW846 8270C
2-Nitroaniline	74	(52 - 117)			SW846 8270C
	81	(52 - 117)	8.8	(0-30)	SW846 8270C
3-Nitroaniline	62	(35 - 119)			SW846 8270C
	73	(35 - 119)	17	(0-30)	SW846 8270C
4-Nitroaniline	75	(50 - 135)			SW846 8270C
	84	(50 - 135)	11	(0-30)	SW846 8270C
Nitrobenzene	69	(46 - 106)			SW846 8270C
	72	(46 - 106)	4.5	(0-30)	SW846 8270C
2-Nitrophenol	86	(47 - 106)			SW846 8270C
	91	(47 - 106)	5.4	(0-30)	SW846 8270C
4-Nitrophenol	74	(41 - 125)			SW846 8270C
	81	(41 - 125)	10	(0-30)	SW846 8270C
N-Nitrosodi-n-propyl- amine	64	(46 - 110)			SW846 8270C
	66	(46 - 110)	3.2	(0-30)	SW846 8270C

(Continued on next page)

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JVFLD1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: I7D210000-144      JVFLD1AD-LCSD

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
N-Nitrosodimethylamine	65	(32 - 98)			SW846 8270C
	68	(32 - 98)	4.5	(0-30)	SW846 8270C
N-Nitrosodiphenylamine	69	(46 - 97)			SW846 8270C
	74	(46 - 97)	8.1	(0-30)	SW846 8270C
Phenanthrene	78	(61 - 111)			SW846 8270C
	83	(61 - 111)	6.1	(0-30)	SW846 8270C
Phenol	68	(46 - 117)			SW846 8270C
	72	(46 - 117)	4.5	(0-30)	SW846 8270C
Pyrene	83	(61 - 106)			SW846 8270C
	88	(61 - 106)	5.4	(0-30)	SW846 8270C
Pyridine	53	(25 - 86)			SW846 8270C
	52	(25 - 86)	3.3	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	78	(54 - 104)			SW846 8270C
	84	(54 - 104)	8.2	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	79	(53 - 103)			SW846 8270C
	85	(53 - 103)	7.4	(0-30)	SW846 8270C
Benzidine	17	(10 - 102)			SW846 8270C
	18	(10 - 102)	8.3	(0-30)	SW846 8270C
Acetophenone	66	(47 - 108)			SW846 8270C
	69	(47 - 108)	4.6	(0-30)	SW846 8270C
Biphenyl	79	(64 - 125)			SW846 8270C
	83	(64 - 125)	4.7	(0-30)	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Nitrobenzene-d5	72	(62 - 108)
	74	(62 - 108)
2-Fluorobiphenyl	-	
	78	(59 - 116)
	80	(59 - 116)
Terphenyl-d14	89	(60 - 113)
	92	(60 - 113)
2-Fluorophenol	70	(49 - 108)
	71	(49 - 108)
Phenol-d5	71	(62 - 114)
	72	(62 - 114)
2,4,6-Tribromophenol	85	(67 - 122)
	88	(67 - 122)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JVFLD1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: I7D210000-144                            JVFLD1AD-LCSD  
 Prep Date.....: 04/21/07      Analysis Date...: 04/26/07  
 Prep Batch #....: 7111144      Analysis Time...: 14:19  
 Dilution Factor: 1

PARAMETER	SPIKE	MEASURED		PERCENT RECOVERY	RPD	METHOD
	AMOUNT	AMOUNT	UNITS			
Acenaphthene	3330	2520	ug/kg	75		SW846 8270C
	3330	2670	ug/kg	80	6.1	SW846 8270C
Acenaphthylene	3330	2450	ug/kg	73		SW846 8270C
	3330	2580	ug/kg	77	5.3	SW846 8270C
Aniline	3330	1580	ug/kg	47		SW846 8270C
	3330	1740	ug/kg	52	9.6	SW846 8270C
Anthracene	3330	2530	ug/kg	76		SW846 8270C
	3330	2670	ug/kg	80	5.6	SW846 8270C
Benzo(a)anthracene	3330	2600	ug/kg	78		SW846 8270C
	3330	2680	ug/kg	80	3.0	SW846 8270C
Benzo(b)fluoranthene	3330	2550	ug/kg	77		SW846 8270C
	3330	2650	ug/kg	79	3.7	SW846 8270C
Benzo(k)fluoranthene	3330	2560	ug/kg	77		SW846 8270C
	3330	2780	ug/kg	83	8.5	SW846 8270C
Benzoic acid	3330	1860	ug/kg	56		SW846 8270C
	3330	1940	ug/kg	58	4.1	SW846 8270C
Benzo(ghi)perylene	3330	2490	ug/kg	75		SW846 8270C
	3330	2610	ug/kg	78	4.8	SW846 8270C
Benzo(a)pyrene	3330	2590	ug/kg	78		SW846 8270C
	3330	2770	ug/kg	83	6.6	SW846 8270C
Benzyl alcohol	3330	2520	ug/kg	76		SW846 8270C
	3330	2620	ug/kg	79	3.9	SW846 8270C
2-Chlorophenol	3330	2260	ug/kg	68		SW846 8270C
	3330	2370	ug/kg	71	4.4	SW846 8270C
4-Chloro-3-methylphenol	3330	2470	ug/kg	74		SW846 8270C
	3330	2620	ug/kg	78	5.7	SW846 8270C
bis(2-Chloroethoxy) methane	3330	2450	ug/kg	74		SW846 8270C
	3330	2540	ug/kg	76	3.5	SW846 8270C
bis(2-Chloroethyl)- ether	3330	2330	ug/kg	70		SW846 8270C
	3330	2480	ug/kg	74	6.4	SW846 8270C
bis(2-Chloroisopropyl) ether	3330	2190	ug/kg	66		SW846 8270C
	3330	2310	ug/kg	69	5.1	SW846 8270C
bis(2-Ethylhexyl) phthalate	3330	2390	ug/kg	72		SW846 8270C
	3330	2500	ug/kg	75	4.3	SW846 8270C

(Continued on next page)

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JVFLD1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: I7D210000-144                                    JVFLD1AD-LCSD

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
4-Bromophenyl phenyl ether	3330	2780	ug/kg	83		SW846 8270C
	3330	2970	ug/kg	89	6.5	SW846 8270C
Butyl benzyl phthalate	3330	2820	ug/kg	85		SW846 8270C
	3330	3010	ug/kg	90	6.5	SW846 8270C
Carbazole	3330	2550	ug/kg	76		SW846 8270C
	3330	2680	ug/kg	80	5.0	SW846 8270C
4-Chloroaniline	3330	1600	ug/kg	48		SW846 8270C
	3330	1890	ug/kg	57	17	SW846 8270C
2-Chloronaphthalene	3330	2480	ug/kg	74		SW846 8270C
	3330	2610	ug/kg	78	5.2	SW846 8270C
4-Chlorophenyl phenyl ether	3330	2720	ug/kg	82		SW846 8270C
	3330	2920	ug/kg	88	6.9	SW846 8270C
Chrysene	3330	2780	ug/kg	83		SW846 8270C
	3330	2930	ug/kg	88	5.3	SW846 8270C
Dibenz (a, h) anthracene	3330	2300	ug/kg	69		SW846 8270C
	3330	2430	ug/kg	73	5.5	SW846 8270C
Dibenzofuran	3330	2630	ug/kg	79		SW846 8270C
	3330	2810	ug/kg	84	6.8	SW846 8270C
Di-n-butyl phthalate	3330	2480	ug/kg	74		SW846 8270C
	3330	2620	ug/kg	79	5.3	SW846 8270C
3,3'-Dichlorobenzidine	3330	2160	ug/kg	65		SW846 8270C
	3330	2370	ug/kg	71	9.3	SW846 8270C
2,4-Dichlorophenol	3330	2680	ug/kg	80		SW846 8270C
	3330	2850	ug/kg	86	6.3	SW846 8270C
Diethyl phthalate	3330	2650	ug/kg	79		SW846 8270C
	3330	2880	ug/kg	86	8.4	SW846 8270C
2,4-Dimethylphenol	3330	2300	ug/kg	69		SW846 8270C
	3330	2440	ug/kg	73	6.1	SW846 8270C
Dimethyl phthalate	3330	2720	ug/kg	82		SW846 8270C
	3330	2950	ug/kg	88	8.1	SW846 8270C
4,6-Dinitro-2-methylphenol	3330	2800	ug/kg	84		SW846 8270C
	3330	2940	ug/kg	88	4.8	SW846 8270C
2,4-Dinitrophenol	3330	2170	ug/kg	65		SW846 8270C
	3330	2170	ug/kg	65	0.11	SW846 8270C
2,4-Dinitrotoluene	3330	2930	ug/kg	88		SW846 8270C
	3330	3240	ug/kg	97	10	SW846 8270C

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## LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JVFLD1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: I7D210000-144      JVFLD1AD-LCSD

PARAMETER	SPIKE	MEASURED		PERCENT	RPD	METHOD
	AMOUNT	AMOUNT	UNITS	RECOVERY		
2,6-Dinitrotoluene	3330	2710	ug/kg	81		SW846 8270C
	3330	2940	ug/kg	88	8.2	SW846 8270C
Di-n-octyl phthalate	3330	2720	ug/kg	82		SW846 8270C
	3330	2860	ug/kg	86	5.2	SW846 8270C
1,2-Diphenylhydrazine (as Azobenzene)	3330	2320	ug/kg	70		SW846 8270C
	3330	2450	ug/kg	74	5.3	SW846 8270C
Fluoranthene	3330	2590	ug/kg	78		SW846 8270C
	3330	2740	ug/kg	82	5.5	SW846 8270C
Fluorene	3330	2600	ug/kg	78		SW846 8270C
	3330	2770	ug/kg	83	6.6	SW846 8270C
Hexachlorobenzene	3330	2730	ug/kg	82		SW846 8270C
	3330	2890	ug/kg	87	5.6	SW846 8270C
Hexachlorocyclopenta- diene	3330	1830	ug/kg	55		SW846 8270C
	3330	1910	ug/kg	57	4.4	SW846 8270C
Hexachloroethane	3330	2190	ug/kg	66		SW846 8270C
	3330	2290	ug/kg	69	4.7	SW846 8270C
Indeno(1,2,3-cd)pyrene	3330	2380	ug/kg	71		SW846 8270C
	3330	2520	ug/kg	76	5.7	SW846 8270C
Isophorone	3330	2450	ug/kg	73		SW846 8270C
	3330	2540	ug/kg	76	3.9	SW846 8270C
2-Methylnaphthalene	3330	2500	ug/kg	75		SW846 8270C
	3330	2590	ug/kg	78	3.9	SW846 8270C
2-Methylphenol	3330	2300	ug/kg	69		SW846 8270C
	3330	2450	ug/kg	73	6.0	SW846 8270C
2-Nitroaniline	3330	2480	ug/kg	74		SW846 8270C
	3330	2700	ug/kg	81	8.8	SW846 8270C
3-Nitroaniline	3330	2070	ug/kg	62		SW846 8270C
	3330	2440	ug/kg	73	17	SW846 8270C
4-Nitroaniline	3330	2510	ug/kg	75		SW846 8270C
	3330	2810	ug/kg	84	11	SW846 8270C
Nitrobenzene	3330	2290	ug/kg	69		SW846 8270C
	3330	2390	ug/kg	72	4.5	SW846 8270C
2-Nitrophenol	3330	2860	ug/kg	86		SW846 8270C
	3330	3020	ug/kg	91	5.4	SW846 8270C
4-Nitrophenol	3330	2450	ug/kg	74		SW846 8270C
	3330	2720	ug/kg	81	10	SW846 8270C
N-Nitrosodi-n-propyl- amine	3330	2150	ug/kg	64		SW846 8270C
	3330	2220	ug/kg	66	3.2	SW846 8270C

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## LABORATORY CONTROL SAMPLE DATA REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JVFLD1AC-LCS      Matrix.....: SOLID  
 LCS Lot-Sample#: I7D210000-144                                    JVFLD1AD-LCSD

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>		<u>PERCENT</u>	<u>RPD</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>	<u>RECOVERY</u>		
N-Nitrosodimethylamine	3330	2170	ug/kg	65		SW846 8270C
	3330	2270	ug/kg	68	4.5	SW846 8270C
N-Nitrosodiphenylamine	3330	2280	ug/kg	69		SW846 8270C
	3330	2480	ug/kg	74	8.1	SW846 8270C
Phenanthrene	3330	2590	ug/kg	78		SW846 8270C
	3330	2750	ug/kg	83	6.1	SW846 8270C
Phenol	3330	2280	ug/kg	68		SW846 8270C
	3330	2390	ug/kg	72	4.5	SW846 8270C
Pyrene	3330	2760	ug/kg	83		SW846 8270C
	3330	2920	ug/kg	88	5.4	SW846 8270C
Pyridine	3330	1780	ug/kg	53		SW846 8270C
	3330	1720	ug/kg	52	3.3	SW846 8270C
2,4,5-Trichloro-phenol	3330	2590	ug/kg	78		SW846 8270C
	3330	2810	ug/kg	84	8.2	SW846 8270C
2,4,6-Trichloro-phenol	3330	2650	ug/kg	79		SW846 8270C
	3330	2850	ug/kg	85	7.4	SW846 8270C
Benzidine	3330	555	ug/kg	17		SW846 8270C
	3330	603	ug/kg	18	8.3	SW846 8270C
Acetophenone	3330	2200	ug/kg	66		SW846 8270C
	3330	2300	ug/kg	69	4.6	SW846 8270C
Biphenyl	3330	2630	ug/kg	79		SW846 8270C
	3330	2760	ug/kg	83	4.7	SW846 8270C
<u>SURROGATE</u>		<u>PERCENT</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Nitrobenzene-d5		72	(62 - 108)			
		74	(62 - 108)			
2-Fluorobiphenyl		78	(59 - 116)			
		80	(59 - 116)			
Terphenyl-d14		89	(60 - 113)			
		92	(60 - 113)			
2-Fluorophenol		70	(49 - 108)			
		71	(49 - 108)			
Phenol-d5		71	(62 - 114)			
		72	(62 - 114)			
2,4,6-Tribromophenol		85	(67 - 122)			
		88	(67 - 122)			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JT1XD1AC      Matrix.....: SOLID  
 LCS Lot-Sample#: D7D170000-012  
 Prep Date.....: 04/17/07      Analysis Date...: 04/20/07  
 Prep Batch #....: 7107012      Analysis Time...: 19:10  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	
4,4'-DDT	101	(44 - 150)	SW846 8081A
Aldrin	89	(60 - 118)	SW846 8081A
Dieldrin	92	(67 - 119)	SW846 8081A
Endrin	94	(63 - 122)	SW846 8081A
gamma-BHC (Lindane)	88	(60 - 117)	SW846 8081A
Heptachlor	93	(46 - 137)	SW846 8081A

  

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	
Decachlorobiphenyl	95	(55 - 130)	
Tetrachloro-m-xylene	94	(64 - 118)	

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE DATA REPORT

## GC Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JT1XD1AC      Matrix.....: SOLID  
 LCS Lot-Sample#: D7D170000-012  
 Prep Date.....: 04/17/07      Analysis Date...: 04/20/07  
 Prep Batch #....: 7107012      Analysis Time...: 19:10  
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>PERCENT</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>RECOVERY</u>	
4, 4'-DDT	16.9	17.2	101	SW846 8081A
Aldrin	16.9	15.1	89	SW846 8081A
Dieldrin	16.9	15.5	92	SW846 8081A
Endrin	16.9	15.9	94	SW846 8081A
gamma-BHC (Lindane)	16.9	15.0	88	SW846 8081A
Heptachlor	16.9	15.8	93	SW846 8081A

  

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Decachlorobiphenyl	95	(55 - 130)
Tetrachloro-m-xylene	94	(64 - 118)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: I7D120264

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#:	I7D190000-235	Prep Batch #....:	7109235		
Silver	102	(80 ~ 120)	SW846 6020	04/19-04/23/07	JT8C01AX
		Dilution Factor: 1		Analysis Time...:	18:06
Aluminum	95	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01A0
		Dilution Factor: 1		Analysis Time...:	18:06
Arsenic	94	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01A1
		Dilution Factor: 1		Analysis Time...:	18:06
Barium	99	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01A2
		Dilution Factor: 1		Analysis Time...:	18:06
Beryllium	92	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01A3
		Dilution Factor: 1		Analysis Time...:	18:06
Cadmium	100	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01A4
		Dilution Factor: 1		Analysis Time...:	18:06
Cobalt	100	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01A5
		Dilution Factor: 1		Analysis Time...:	18:06
Copper	100	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01A6
		Dilution Factor: 1		Analysis Time...:	18:06
Iron	105	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01A7
		Dilution Factor: 1		Analysis Time...:	18:06
Lithium	94	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01A8
		Dilution Factor: 1		Analysis Time...:	18:06
Manganese	103	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01A9
		Dilution Factor: 1		Analysis Time...:	18:06
Nickel	101	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01CA
		Dilution Factor: 1		Analysis Time...:	18:06
Lead	101	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01CC
		Dilution Factor: 1		Analysis Time...:	18:06
Antimony	102	(80 - 120)	SW846 6020	04/19-04/23/07	JT8C01CD
		Dilution Factor: 1		Analysis Time...:	18:06

(Continued on next page)

## LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: I7D120264

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>ANALYSIS DATE</u>	<u>WORK ORDER #</u>
Selenium	94	(80 - 120)	SW846 6020		04/19-04/23/07	JT8C01CE
		Dilution Factor: 1		Analysis Time...: 18:06		
Titanium	102	(80 - 120)	SW846 6020		04/19-04/23/07	JT8C01CF
		Dilution Factor: 1		Analysis Time...: 18:06		
Thallium	96	(80 - 120)	SW846 6020		04/19-04/23/07	JT8C01CG
		Dilution Factor: 1		Analysis Time...: 18:06		
Zinc	101	(80 - 120)	SW846 6020		04/19-04/23/07	JT8C01CH
		Dilution Factor: 1		Analysis Time...: 18:06		
LCS Lot-Sample#:	I7D190000-239	Prep Batch #....:	7109239			
Boron	93	(80 - 120)	SW846 6010B		04/19-04/20/07	JT8D21AC
		Dilution Factor: 1		Analysis Time...: 12:47		
LCS Lot-Sample#:	I7D240000-205	Prep Batch #....:	7114205			
Mercury	91	(80 - 120)	SW846 7471A		04/24/07	JVH6G1AC
		Dilution Factor: 1		Analysis Time...: 17:31		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

## LABORATORY CONTROL SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: I7D120264

Matrix.....: SOLID

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	PREPARATION-METHOD	WORK ANALYSIS DATE	WORK ORDER #
<b>LCS Lot-Sample#: I7D190000-235 Prep Batch #...: 7109235</b>							
Silver	1.00	1.02	mg/kg	102	SW846 6020	04/19-04/23/07	JT8C01AX
			Dilution Factor:	1	Analysis Time...:	18:06	
Aluminum	500	474	mg/kg	95	SW846 6020	04/19-04/23/07	JT8C01A0
			Dilution Factor:	1	Analysis Time...:	18:06	
Arsenic	5.00	4.69	mg/kg	94	SW846 6020	04/19-04/23/07	JT8C01A1
			Dilution Factor:	1	Analysis Time...:	18:06	
Barium	5.00	4.96	mg/kg	99	SW846 6020	04/19-04/23/07	JT8C01A2
			Dilution Factor:	1	Analysis Time...:	18:06	
Beryllium	5.00	4.58	mg/kg	92	SW846 6020	04/19-04/23/07	JT8C01A3
			Dilution Factor:	1	Analysis Time...:	18:06	
Cadmium	5.00	4.98	mg/kg	100	SW846 6020	04/19-04/23/07	JT8C01A4
			Dilution Factor:	1	Analysis Time...:	18:06	
Cobalt	5.00	5.02	mg/kg	100	SW846 6020	04/19-04/23/07	JT8C01A5
			Dilution Factor:	1	Analysis Time...:	18:06	
Copper	5.00	5.00	mg/kg	100	SW846 6020	04/19-04/23/07	JT8C01A6
			Dilution Factor:	1	Analysis Time...:	18:06	
Iron	500	525	mg/kg	105	SW846 6020	04/19-04/23/07	JT8C01A7
			Dilution Factor:	1	Analysis Time...:	18:06	
Lithium	5.00	4.69	mg/kg	94	SW846 6020	04/19-04/23/07	JT8C01A8
			Dilution Factor:	1	Analysis Time...:	18:06	
Manganese	5.00	5.13	mg/kg	103	SW846 6020	04/19-04/23/07	JT8C01A9
			Dilution Factor:	1	Analysis Time...:	18:06	
Nickel	5.00	5.03	mg/kg	101	SW846 6020	04/19-04/23/07	JT8C01CA
			Dilution Factor:	1	Analysis Time...:	18:06	
Lead	5.00	5.04	mg/kg	101	SW846 6020	04/19-04/23/07	JT8C01CC
			Dilution Factor:	1	Analysis Time...:	18:06	
Antimony	5.00	5.11	mg/kg	102	SW846 6020	04/19-04/23/07	JT8C01CD
			Dilution Factor:	1	Analysis Time...:	18:06	

(Continued on next page)

**LABORATORY CONTROL SAMPLE DATA REPORT**

**TOTAL Metals**

Client Lot #...: I7D120264

Matrix.....: SOLID

PARAMETER	SPIKE	MEASURED	UNITS	PERCNT RECVRY	METHOD	PREPARATION-	WORK
	AMOUNT	AMOUNT				ANALYSIS DATE	ORDER #
Selenium	5.00	4.68	mg/kg	94	SW846 6020	04/19-04/23/07	JT8C01CE
			Dilution Factor: 1			Analysis Time...: 18:06	
Titanium	5.00	5.09	mg/kg	102	SW846 6020	04/19-04/23/07	JT8C01CF
			Dilution Factor: 1			Analysis Time...: 18:06	
Thallium	5.00	4.80	mg/kg	96	SW846 6020	04/19-04/23/07	JT8C01CG
			Dilution Factor: 1			Analysis Time...: 18:06	
Zinc	5.00	5.07	mg/kg	101	SW846 6020	04/19-04/23/07	JT8C01CH
			Dilution Factor: 1			Analysis Time...: 18:06	

LCS Lot-Sample#: I7D190000-239 Prep Batch #...: 7109239

Boron	5.00	4.66	mg/kg	93	SW846 6010B	04/19-04/20/07	JT8D21AC
			Dilution Factor: 1			Analysis Time...: 12:47	

LCS Lot-Sample#: I7D240000-205 Prep Batch #...: 7114205

Mercury	0.417	0.381	mg/kg	91	SW846 7471A	04/24/07	JVH6G1AC
			Dilution Factor: 1			Analysis Time...: 17:31	

**NOTE (S) :**

Calculations are performed before rounding to avoid round-off errors in calculated results.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JT5CX1AF-MS      Matrix.....: SOLID  
 MS Lot-Sample #: I7D180179-001      JT5CX1AG-MSD  
 Date Sampled....: 04/17/07 15:55      Date Received...: 04/18/07  
 Prep Date.....: 04/21/07      Analysis Date...: 04/26/07  
 Prep Batch #....: 7111144      Analysis Time...: 15:34  
 Dilution Factor: 1      % Moisture.....: 27

PARAMETER	PERCENT	RECOVERY	RPD	LIMITS	METHOD
	RECOVERY	LIMITS			
Acenaphthene	78	(58 - 104)	4.4	(0-30)	SW846 8270C
	81	(58 - 104)			
Acenaphthylene	76	(59 - 104)	2.7	(0-30)	SW846 8270C
	78	(59 - 104)			
Aniline	47	(25 - 98)	1.1	(0-30)	SW846 8270C
	48	(25 - 98)			
Anthracene	79	(62 - 109)	2.8	(0-30)	SW846 8270C
	81	(62 - 109)			
Benzo (a)anthracene	79	(59 - 109)	4.5	(0-30)	SW846 8270C
	83	(59 - 109)			
Benzo (b)fluoranthene	82	(54 - 106)	3.5	(0-30)	SW846 8270C
	85	(54 - 106)			
Benzo (k)fluoranthene	75	(56 - 124)	4.3	(0-30)	SW846 8270C
	78	(56 - 124)			
Benzoic acid	59	(8.0- 111)	2.0	(0-30)	SW846 8270C
	60	(8.0- 111)			
Benzo (ghi)perylene	75	(56 - 128)	4.9	(0-30)	SW846 8270C
	79	(56 - 128)			
Benzo (a)pyrene	80	(60 - 109)	3.0	(0-30)	SW846 8270C
	83	(60 - 109)			
Benzyl alcohol	80	(42 - 122)	1.4	(0-30)	SW846 8270C
	81	(42 - 122)			
2-Chlorophenol	72	(43 - 107)	4.5	(0-30)	SW846 8270C
	75	(43 - 107)			
4-Chloro-3-methylphenol	76	(56 - 112)	4.1	(0-30)	SW846 8270C
	79	(56 - 112)			
bis(2-Chloroethoxy) methane	74	(48 - 106)	7.8	(0-30)	SW846 8270C
	80	(48 - 106)			
bis(2-Chloroethyl)- ether	75	(39 - 105)	6.8	(0-30)	SW846 8270C
	81	(39 - 105)			
bis(2-Chloroisopropyl) ether	69	(43 - 103)	5.4	(0-30)	SW846 8270C
	73	(43 - 103)			

(Continued on next page)

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JT5CX1AF-MS      Matrix.....: SOLID  
 MS Lot-Sample #: I7D180179-001                                    JT5CX1AG-MSD

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
bis(2-Ethylhexyl) phthalate	74	(60 - 106)			SW846 8270C
	76	(60 - 106)	3.5	(0-30)	SW846 8270C
4-Bromophenyl phenyl ether	86	(59 - 115)			SW846 8270C
	89	(59 - 115)	3.9	(0-30)	SW846 8270C
Butyl benzyl phthalate	88	(59 - 105)			SW846 8270C
	93	(59 - 105)	4.9	(0-30)	SW846 8270C
Carbazole	77	(60 - 112)			SW846 8270C
	79	(60 - 112)	3.0	(0-30)	SW846 8270C
4-Chloroaniline	49	(22 - 110)			SW846 8270C
	45	(22 - 110)	8.1	(0-30)	SW846 8270C
2-Chloronaphthalene	78	(50 - 112)			SW846 8270C
	81	(50 - 112)	3.9	(0-30)	SW846 8270C
4-Chlorophenyl phenyl ether	85	(59 - 104)			SW846 8270C
	87	(59 - 104)	3.3	(0-30)	SW846 8270C
Chrysene	86	(61 - 110)			SW846 8270C
	90	(61 - 110)	4.8	(0-30)	SW846 8270C
Dibenz(a,h)anthracene	70	(62 - 119)			SW846 8270C
	73	(62 - 119)	5.0	(0-30)	SW846 8270C
Dibenzofuran	81	(58 - 103)			SW846 8270C
	85	(58 - 103)	4.2	(0-30)	SW846 8270C
Di-n-butyl phthalate	77	(60 - 110)			SW846 8270C
	79	(60 - 110)	1.8	(0-30)	SW846 8270C
3,3'-Dichlorobenzidine	61	(41 - 105)			SW846 8270C
	63	(41 - 105)	2.8	(0-30)	SW846 8270C
2,4-Dichlorophenol	84	(50 - 107)			SW846 8270C
	87	(50 - 107)	3.7	(0-30)	SW846 8270C
Diethyl phthalate	83	(59 - 107)			SW846 8270C
	85	(59 - 107)	2.5	(0-30)	SW846 8270C
2,4-Dimethylphenol	71	(43 - 102)			SW846 8270C
	74	(43 - 102)	3.9	(0-30)	SW846 8270C
Dimethyl phthalate	84	(58 - 106)			SW846 8270C
	88	(58 - 106)	4.4	(0-30)	SW846 8270C
4,6-Dinitro-2-methylphenol	89	(42 - 121)	0.61	(0-30)	SW846 8270C

(Continued on next page)

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #...: I7D120264      Work Order #...: JT5CX1AF-MS      Matrix.....: SOLID  
 MS Lot-Sample #: I7D180179-001      JT5CX1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dinitrophenol	70	(7.0 - 113)			SW846 8270C
	67	(7.0 - 113)	4.1	(0-30)	SW846 8270C
2,4-Dinitrotoluene	93	(55 - 110)			SW846 8270C
	96	(55 - 110)	3.1	(0-30)	SW846 8270C
2,6-Dinitrotoluene	84	(58 - 104)			SW846 8270C
	87	(58 - 104)	4.1	(0-30)	SW846 8270C
Di-n-octyl phthalate	83	(58 - 109)			SW846 8270C
	86	(58 - 109)	2.7	(0-30)	SW846 8270C
1,2-Diphenylhydrazine (as Azobenzene)	72	(53 - 128)			SW846 8270C
	74	(53 - 128)	2.8	(0-30)	SW846 8270C
Fluoranthene	81	(62 - 113)			SW846 8270C
	81	(62 - 113)	1.1	(0-30)	SW846 8270C
Fluorene	81	(60 - 107)			SW846 8270C
	83	(60 - 107)	2.8	(0-30)	SW846 8270C
Hexachlorobenzene	85	(62 - 107)			SW846 8270C
	87	(62 - 107)	1.8	(0-30)	SW846 8270C
Hexachlorocyclopenta-diene	57	(2.0 - 111)			SW846 8270C
	62	(2.0 - 111)	7.4	(0-30)	SW846 8270C
Hexachloroethane	69	(41 - 100)			SW846 8270C
	73	(41 - 100)	5.2	(0-30)	SW846 8270C
Indeno(1,2,3-cd)pyrene	72	(60 - 121)			SW846 8270C
	76	(60 - 121)	5.1	(0-30)	SW846 8270C
Isophorone	76	(49 - 110)			SW846 8270C
	80	(49 - 110)	4.8	(0-30)	SW846 8270C
2-Methylnaphthalene	78	(52 - 102)			SW846 8270C
	81	(52 - 102)	3.9	(0-30)	SW846 8270C
2-Methylphenol	72	(46 - 109)			SW846 8270C
	76	(46 - 109)	5.2	(0-30)	SW846 8270C
2-Nitroaniline	77	(52 - 117)			SW846 8270C
	81	(52 - 117)	4.5	(0-30)	SW846 8270C
3-Nitroaniline	64	(35 - 119)			SW846 8270C
	63	(35 - 119)	1.4	(0-30)	SW846 8270C
4-Nitroaniline	80	(50 - 135)			SW846 8270C
	83	(50 - 135)	3.5	(0-30)	SW846 8270C
Nitrobenzene	73	(46 - 106)			SW846 8270C
	76	(46 - 106)	4.4	(0-30)	SW846 8270C
2-Nitrophenol	91	(47 - 106)			SW846 8270C
	96	(47 - 106)	5.3	(0-30)	SW846 8270C

(Continued on next page)

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #...: I7D120264      Work Order #...: JT5CX1AF-MS      Matrix.....: SOLID  
 MS Lot-Sample #: I7D180179-001      JT5CX1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Nitrophenol	81	(41 - 125)			SW846 8270C
	84	(41 - 125)	3.2	(0-30)	SW846 8270C
N-Nitrosodi-n-propyl-amine	68	(46 - 110)			SW846 8270C
	71	(46 - 110)	5.1	(0-30)	SW846 8270C
N-Nitrosodimethylamine	69	(32 - 98)			SW846 8270C
	74	(32 - 98)	6.4	(0-30)	SW846 8270C
N-Nitrosodiphenylamine	72	(46 - 97)			SW846 8270C
	74	(46 - 97)	3.7	(0-30)	SW846 8270C
Phenanthrene	80	(61 - 111)			SW846 8270C
	82	(61 - 111)	3.2	(0-30)	SW846 8270C
Phenol	72	(46 - 117)			SW846 8270C
	75	(46 - 117)	3.9	(0-30)	SW846 8270C
Pyrene	86	(61 - 106)			SW846 8270C
	89	(61 - 106)	3.9	(0-30)	SW846 8270C
Pyridine	45	(25 - 86)			SW846 8270C
	52	(25 - 86)	14	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	82	(54 - 104)			SW846 8270C
	84	(54 - 104)	3.4	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	82	(53 - 103)			SW846 8270C
	86	(53 - 103)	4.5	(0-30)	SW846 8270C
Benzidine	8.6 a	(10 - 102)			SW846 8270C
	9.2 a	(10 - 102)	7.4	(0-30)	SW846 8270C
Acetophenone	69	(47 - 108)			SW846 8270C
	72	(47 - 108)	4.4	(0-30)	SW846 8270C
Biphenyl	81	(64 - 125)			SW846 8270C
	84	(64 - 125)	3.4	(0-30)	SW846 8270C
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS			
Nitrobenzene-d5	73	(40 - 122)			
	80	(40 - 122)			
2-Fluorobiphenyl	78	(42 - 129)			
	82	(42 - 129)			
Terphenyl-d14	89	(44 - 127)			
	94	(44 - 127)			

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## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JT5CX1AF-MS      Matrix.....: SOLID  
MS Lot-Sample #: I7D180179-001                                    JT5CX1AG-MSD

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
2-Fluorophenol	71	(36 - 114)
	77	(36 - 114)
Phenol-d5	72	(38 - 125)
	77	(38 - 125)
2, 4, 6-Tribromophenol	86	(42 - 136)
	90	(42 - 136)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JT5CX1AF-MS      Matrix.....: SOLID  
 MS Lot-Sample #: I7D180179-001      JT5CX1AG-MSD  
 Date Sampled....: 04/17/07 15:55 Date Received...: 04/18/07  
 Prep Date.....: 04/21/07 Analysis Date...: 04/26/07  
 Prep Batch #....: 7111144 Analysis Time...: 15:34  
 Dilution Factor: 1 % Moisture.....: 27

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD
Acenaphthene	ND	4560	3540	ug/kg	78		SW846 8270C
	ND	4570	3700	ug/kg	81	4.4	SW846 8270C
Acenaphthylene	ND	4560	3460	ug/kg	76		SW846 8270C
	ND	4570	3560	ug/kg	78	2.7	SW846 8270C
Aniline	ND	4560	2150	ug/kg	47		SW846 8270C
	ND	4570	2180	ug/kg	48	1.1	SW846 8270C
Anthracene	ND	4560	3620	ug/kg	79		SW846 8270C
	ND	4570	3720	ug/kg	81	2.8	SW846 8270C
Benzo (a) anthracene	ND	4560	3610	ug/kg	79		SW846 8270C
	ND	4570	3780	ug/kg	83	4.5	SW846 8270C
Benzo (b) fluoranthene	ND	4560	3750	ug/kg	82		SW846 8270C
	ND	4570	3880	ug/kg	85	3.5	SW846 8270C
Benzo (k) fluoranthene	ND	4560	3400	ug/kg	75		SW846 8270C
	ND	4570	3550	ug/kg	78	4.3	SW846 8270C
Benzoic acid	410	4560	3100	ug/kg	59		SW846 8270C
	410	4570	3160	ug/kg	60	2.0	SW846 8270C
Benzo (ghi) perylene	ND	4560	3420	ug/kg	75		SW846 8270C
	ND	4570	3590	ug/kg	79	4.9	SW846 8270C
Benzo (a) pyrene	ND	4560	3660	ug/kg	80		SW846 8270C
	ND	4570	3770	ug/kg	83	3.0	SW846 8270C
Benzyl alcohol	ND	4560	3640	ug/kg	80		SW846 8270C
	ND	4570	3690	ug/kg	81	1.4	SW846 8270C
2-Chlorophenol	ND	4560	3280	ug/kg	72		SW846 8270C
	ND	4570	3430	ug/kg	75	4.5	SW846 8270C
4-Chloro-3-methylphenol	ND	4560	3480	ug/kg	76		SW846 8270C
	ND	4570	3630	ug/kg	79	4.1	SW846 8270C
bis(2-Chloroethoxy) methane	ND	4560	3360	ug/kg	74		SW846 8270C
	ND	4570	3640	ug/kg	80	7.8	SW846 8270C
bis(2-Chloroethyl) - ether	ND	4560	3440	ug/kg	75		SW846 8270C
	ND	4570	3680	ug/kg	81	6.8	SW846 8270C
bis(2-Chloroisopropyl) ether	ND	4560	3150	ug/kg	69		SW846 8270C
	ND	4570	3320	ug/kg	73	5.4	SW846 8270C

(Continued on next page)

## MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Semivolatiles

Client Lot #...: I7D120264      Work Order #...: JT5CX1AF-MS      Matrix.....: SOLID  
 MS Lot-Sample #: I7D180179-001      JT5CX1AG-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
bis(2-Ethylhexyl) phthalate	ND	4560	3370	ug/kg	74		SW846 8270C
	ND	4570	3490	ug/kg	76	3.5	SW846 8270C
4-Bromophenyl phenyl ether	ND	4560	3920	ug/kg	86		SW846 8270C
	ND	4570	4070	ug/kg	89	3.9	SW846 8270C
Butyl benzyl phthalate	ND	4560	4020	ug/kg	88		SW846 8270C
	ND	4570	4230	ug/kg	93	4.9	SW846 8270C
Carbazole	ND	4560	3490	ug/kg	77		SW846 8270C
	ND	4570	3600	ug/kg	79	3.0	SW846 8270C
4-Chloroaniline	ND	4560	2220	ug/kg	49		SW846 8270C
	ND	4570	2050	ug/kg	45	8.1	SW846 8270C
2-Chloronaphthalene	ND	4560	3540	ug/kg	78		SW846 8270C
	ND	4570	3680	ug/kg	81	3.9	SW846 8270C
4-Chlorophenyl phenyl ether	ND	4560	3860	ug/kg	85		SW846 8270C
	ND	4570	3990	ug/kg	87	3.3	SW846 8270C
Chrysene	ND	4560	3910	ug/kg	86		SW846 8270C
	ND	4570	4110	ug/kg	90	4.8	SW846 8270C
Dibenz(a,h)anthracene	ND	4560	3170	ug/kg	70		SW846 8270C
	ND	4570	3340	ug/kg	73	5.0	SW846 8270C
Dibenzofuran	ND	4560	3710	ug/kg	81		SW846 8270C
	ND	4570	3870	ug/kg	85	4.2	SW846 8270C
Di-n-butyl phthalate	ND	4560	3530	ug/kg	77		SW846 8270C
	ND	4570	3590	ug/kg	79	1.8	SW846 8270C
3,3'-Dichlorobenzidine	ND	4560	2790	ug/kg	61		SW846 8270C
	ND	4570	2870	ug/kg	63	2.8	SW846 8270C
2,4-Dichlorophenol	ND	4560	3810	ug/kg	84		SW846 8270C
	ND	4570	3950	ug/kg	87	3.7	SW846 8270C
Diethyl phthalate	ND	4560	3800	ug/kg	83		SW846 8270C
	ND	4570	3900	ug/kg	85	2.5	SW846 8270C
2,4-Dimethylphenol	ND	4560	3250	ug/kg	71		SW846 8270C
	ND	4570	3370	ug/kg	74	3.9	SW846 8270C
Dimethyl phthalate	ND	4560	3850	ug/kg	84		SW846 8270C
	ND	4570	4020	ug/kg	88	4.4	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	4560	4070	ug/kg	89		SW846 8270C
	ND	4570	4050	ug/kg	89	0.61	SW846 8270C

(Continued on next page)

## MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Semivolatiles

Client Lot #...: I7D120264      Work Order #...: JT5CX1AF-MS      Matrix.....: SOLID  
 MS Lot-Sample #: I7D180179-001      JT5CX1AG-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
2,4-Dinitrophenol	ND	4560	3190	ug/kg	70		SW846 8270C
	ND	4570	3060	ug/kg	67	4.1	SW846 8270C
2,4-Dinitrotoluene	ND	4560	4240	ug/kg	93		SW846 8270C
	ND	4570	4370	ug/kg	96	3.1	SW846 8270C
2,6-Dinitrotoluene	ND	4560	3830	ug/kg	84		SW846 8270C
	ND	4570	3990	ug/kg	87	4.1	SW846 8270C
Di-n-octyl phthalate	ND	4560	3800	ug/kg	83		SW846 8270C
	ND	4570	3910	ug/kg	86	2.7	SW846 8270C
1,2-Diphenylhydrazine (as Azobenzene)	ND	4560	3280	ug/kg	72		SW846 8270C
	ND	4570	3370	ug/kg	74	2.8	SW846 8270C
Fluoranthene	ND	4560	3680	ug/kg	81		SW846 8270C
	ND	4570	3720	ug/kg	81	1.1	SW846 8270C
Fluorene	ND	4560	3680	ug/kg	81		SW846 8270C
	ND	4570	3780	ug/kg	83	2.8	SW846 8270C
Hexachlorobenzene	ND	4560	3890	ug/kg	85		SW846 8270C
	ND	4570	3960	ug/kg	87	1.8	SW846 8270C
Hexachlorocyclopenta-diene	ND	4560	2620	ug/kg	57		SW846 8270C
	ND	4570	2820	ug/kg	62	7.4	SW846 8270C
Hexachloroethane	ND	4560	3150	ug/kg	69		SW846 8270C
	ND	4570	3320	ug/kg	73	5.2	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	4560	3300	ug/kg	72		SW846 8270C
	ND	4570	3470	ug/kg	76	5.1	SW846 8270C
Isophorone	ND	4560	3480	ug/kg	76		SW846 8270C
	ND	4570	3650	ug/kg	80	4.8	SW846 8270C
2-Methylnaphthalene	ND	4560	3540	ug/kg	78		SW846 8270C
	ND	4570	3680	ug/kg	81	3.9	SW846 8270C
2-Methylphenol	ND	4560	3280	ug/kg	72		SW846 8270C
	ND	4570	3450	ug/kg	76	5.2	SW846 8270C
2-Nitroaniline	ND	4560	3520	ug/kg	77		SW846 8270C
	ND	4570	3680	ug/kg	81	4.5	SW846 8270C
3-Nitroaniline	ND	4560	2900	ug/kg	64		SW846 8270C
	ND	4570	2860	ug/kg	63	1.4	SW846 8270C
4-Nitroaniline	ND	4560	3660	ug/kg	80		SW846 8270C
	ND	4570	3790	ug/kg	83	3.5	SW846 8270C
Nitrobenzene	ND	4560	3300	ug/kg	73		SW846 8270C
	ND	4570	3450	ug/kg	76	4.4	SW846 8270C
2-Nitrophenol	ND	4560	4160	ug/kg	91		SW846 8270C
	ND	4570	4390	ug/kg	96	5.3	SW846 8270C

(Continued on next page)

## MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Semivolatiles

Client Lot #....: I7D120264      Work Order #....: JT5CX1AF-MS      Matrix.....: SOLID  
 MS Lot-Sample #: I7D180179-001      JT5CX1AG-MSD

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT	RPD	METHOD
	AMOUNT	AMT	AMOUNT		RECVRY		
4-Nitrophenol	ND	4560	3700	ug/kg	81		SW846 8270C
	ND	4570	3820	ug/kg	84	3.2	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	4560	3080	ug/kg	68		SW846 8270C
	ND	4570	3240	ug/kg	71	5.1	SW846 8270C
N-Nitrosodimethylamine	ND	4560	3160	ug/kg	69		SW846 8270C
	ND	4570	3370	ug/kg	74	6.4	SW846 8270C
N-Nitrosodiphenylamine	ND	4560	3270	ug/kg	72		SW846 8270C
	ND	4570	3390	ug/kg	74	3.7	SW846 8270C
Phenanthrene	ND	4560	3650	ug/kg	80		SW846 8270C
	ND	4570	3770	ug/kg	82	3.2	SW846 8270C
Phenol	ND	4560	3300	ug/kg	72		SW846 8270C
	ND	4570	3430	ug/kg	75	3.9	SW846 8270C
Pyrene	ND	4560	3910	ug/kg	86		SW846 8270C
	ND	4570	4070	ug/kg	89	3.9	SW846 8270C
Pyridine	ND	4560	2060	ug/kg	45		SW846 8270C
	ND	4570	2380	ug/kg	52	14	SW846 8270C
2,4,5-Trichloro-phenol	ND	4560	3730	ug/kg	82		SW846 8270C
	ND	4570	3860	ug/kg	84	3.4	SW846 8270C
2,4,6-Trichloro-phenol	ND	4560	3750	ug/kg	82		SW846 8270C
	ND	4570	3920	ug/kg	86	4.5	SW846 8270C
Benzidine	ND	4560	392	ug/kg	8.6 a		SW846 8270C
	ND	4570	422	ug/kg	9.2 a	7.4	SW846 8270C
Acetophenone	41	4560	3170	ug/kg	69		SW846 8270C
	41	4570	3320	ug/kg	72	4.4	SW846 8270C
Biphenyl	ND	4560	3720	ug/kg	81		SW846 8270C
	ND	4570	3850	ug/kg	84	3.4	SW846 8270C

SURROGATE	PERCENT	RECOVERY	LIMITS
	RECOVERY		
Nitrobenzene-d5	73		(40 - 122)
	80		(40 - 122)
2-Fluorobiphenyl	78		(42 - 129)
	82		(42 - 129)
Terphenyl-d14	89		(44 - 127)
	94		(44 - 127)

(Continued on next page)

## MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Semivolatiles

Client Lot #...: I7D120264      Work Order #...: JT5CX1AF-MS      Matrix.....: SOLID  
MS Lot-Sample #: I7D180179-001      JT5CX1AG-MSD

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
2-Fluorophenol	71	(36 - 114)
	77	(36 - 114)
Phenol-d5	72	(38 - 125)
	77	(38 - 125)
2,4,6-Tribromophenol	86	(42 - 136)
	90	(42 - 136)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC Semivolatiles

Client Lot #...: I7D120264      Work Order #...: JTR4J1A6-MS      Matrix.....: SOLID  
 MS Lot-Sample #: I7D120264-005      JTR4J1A7-MSD  
 Date Sampled...: 04/09/07 14:55 Date Received...: 04/12/07  
 Prep Date.....: 04/17/07 Analysis Date...: 04/21/07  
 Prep Batch #...: 7107012 Analysis Time...: 07:20  
 Dilution Factor: 1 % Moisture.....: 36

PARAMETER	PERCENT	RECOVERY	RPD	LIMITS	METHOD
	RECOVERY	LIMITS			
<i>4,4'-DDT</i>	131	(20 - 181)	6.5	(0-54)	SW846 8081A
	140	(20 - 181)			SW846 8081A
Aldrin	84	(47 - 119)	6.6	(0-38)	SW846 8081A
	79	(47 - 119)			SW846 8081A
Dieldrin	86	(25 - 145)	9.2	(0-34)	SW846 8081A
	94	(25 - 145)			SW846 8081A
Endrin	96	(49 - 138)	6.5	(0-35)	SW846 8081A
	103	(49 - 138)			SW846 8081A
gamma-BHC (Lindane)	82	(20 - 151)	3.0	(0-37)	SW846 8081A
	85	(20 - 151)			SW846 8081A
Heptachlor	93	(36 - 139)	4.5	(0-40)	SW846 8081A
	98	(36 - 139)			SW846 8081A

<u>SURROGATE</u>	PERCENT	RECOVERY
	RECOVERY	LIMITS
Decachlorobiphenyl	84	(49 - 130)
Tetrachloro-m-xylene	82	(46 - 127)
	86	(46 - 127)
	89	(46 - 127)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

## MATRIX SPIKE SAMPLE DATA REPORT

## GC Semivolatiles

Client Lot #...: I7D120264      Work Order #...: JTR4J1A6-MS      Matrix.....: SOLID  
 MS Lot-Sample #: I7D120264-005      JTR4J1A7-MSD  
 Date Sampled...: 04/09/07 14:55      Date Received..: 04/12/07  
 Prep Date.....: 04/17/07      Analysis Date..: 04/21/07  
 Prep Batch #...: 7107012      Analysis Time..: 07:20  
 Dilution Factor: 1      % Moisture.....: 36

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			METHOD
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	
4,4'-DDT	ND	25.3	33.1	ug/kg	131		SW846 8081A
	ND	25.2	35.3	ug/kg	140	6.5	SW846 8081A
Aldrin	ND	25.3	21.2	ug/kg	84		SW846 8081A
	ND	25.2	19.9	ug/kg	79	6.6	SW846 8081A
Dieldrin	ND	25.3	21.7	ug/kg	86		SW846 8081A
	ND	25.2	23.8	ug/kg	94	9.2	SW846 8081A
Endrin	ND	25.3	24.3	ug/kg	96		SW846 8081A
	ND	25.2	25.9	ug/kg	103	6.5	SW846 8081A
gamma-BHC (Lindane)	ND	25.3	20.8	ug/kg	82		SW846 8081A
	ND	25.2	21.4	ug/kg	85	3.0	SW846 8081A
Heptachlor	ND	25.3	23.6	ug/kg	93		SW846 8081A
	ND	25.2	24.7	ug/kg	98	4.5	SW846 8081A
<u>SURROGATE</u>		<u>PERCENT</u>		<u>RECOVERY</u>			
<u>Decachlorobiphenyl</u>		<u>RECOVERY</u>		<u>LIMITS</u>			
84		(49 - 130)					
82		(49 - 130)					
86		(46 - 127)					
89		(46 - 127)					

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: I7D120264

Matrix.....: SOLID

Date Sampled...: 04/10/07 10:06 Date Received..: 04/12/07

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>MS Lot-Sample #: I7D120264-001 Prep Batch #...: 7109235</b>							
Aluminum	96	(80 - 120)		SW846 6020		04/19-04/23/07 JTR301A3	% Moisture....: 38
	92	(80 - 120) 2.2 (0-20)	2.2	SW846 6020		04/19-04/23/07 JTR301A4	
		Dilution Factor: 7.51					
		Analysis Time...: 18:26					
Antimony	55 N	(80 - 120)		SW846 6020		04/19-04/23/07 JTR301CV	
	52 N	(80 - 120) 9.4 (0-20)	9.4	SW846 6020		04/19-04/23/07 JTR301CW	
		Dilution Factor: 7.51					
		Analysis Time...: 18:26					
Arsenic	97	(80 - 120)		SW846 6020		04/19-04/23/07 JTR301A5	
	92	(80 - 120) 6.8 (0-20)	6.8	SW846 6020		04/19-04/23/07 JTR301A6	
		Dilution Factor: 7.51					
		Analysis Time...: 18:26					
Barium	NC	(80 - 120)		SW846 6020		04/19-04/23/07 JTR301A7	
	NC	(80 - 120) (0-20)	(0-20)	SW846 6020		04/19-04/23/07 JTR301A8	
		Dilution Factor: 7.51					
		Analysis Time...: 18:26					
Beryllium	88	(80 - 120)		SW846 6020		04/19-04/23/07 JTR301A9	
	90	(80 ~ 120) 1.4 (0-20)	1.4	SW846 6020		04/19-04/23/07 JTR301CA	
		Dilution Factor: 7.51					
		Analysis Time...: 18:26					
Cadmium	102	(80 - 120)		SW846 6020		04/19-04/23/07 JTR301CC	
	104	(80 - 120) 3.2 (0-20)	3.2	SW846 6020		04/19-04/23/07 JTR301CD	
		Dilution Factor: 7.51					
		Analysis Time...: 18:26					
Cobalt	107	(80 ± 120)		SW846 6020		04/19-04/23/07 JTR301CE	
	111	(80 - 120) 0.52 (0-20)	0.52	SW846 6020		04/19-04/23/07 JTR301CF	
		Dilution Factor: 7.51					
		Analysis Time...: 18:26					
Copper	103	(80 - 120)		SW846 6020		04/19-04/23/07 JTR301CG	
	102	(80 - 120) 1.6 (0-20)	1.6	SW846 6020		04/19-04/23/07 JTR301CH	
		Dilution Factor: 7.51					
		Analysis Time...: 18:26					

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## MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: I7D120264

Matrix.....: SOLID

Date Sampled...: 04/10/07 10:06 Date Received..: 04/12/07

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>PREPARATION-</u>	<u>WORK</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>ANALYSIS DATE</u>	<u>ORDER #</u>
Iron	33 N	(80 - 120)		SW846 6020	04/19-04/23/07 JTR301CJ
	35 N	(80 - 120) 0.02 (0-20)		SW846 6020	04/19-04/23/07 JTR301CK
		Dilution Factor: 7.51			
		Analysis Time...: 18:26			
Lead	101	(80 - 120)		SW846 6020	04/19-04/23/07 JTR301CT
	100	(80 - 120) 1.5 (0-20)		SW846 6020	04/19-04/23/07 JTR301CU
		Dilution Factor: 7.51			
		Analysis Time...: 18:26			
Lithium	135 N	(80 - 120)		SW846 6020	04/19-04/23/07 JTR301CL
	135 N	(80 - 120) 1.4 (0-20)		SW846 6020	04/19-04/23/07 JTR301CM
		Dilution Factor: 7.51			
		Analysis Time...: 18:26			
Manganese	NC	(80 - 120)		SW846 6020	04/19-04/23/07 JTR301CN
	NC	(80 - 120) (0-20)		SW846 6020	04/19-04/23/07 JTR301CP
		Dilution Factor: 7.51			
		Analysis Time...: 18:26			
Nickel	120	(80 - 120)		SW846 6020	04/19-04/23/07 JTR301CQ
	121 N	(80 - 120) 1.0 (0-20)		SW846 6020	04/19-04/23/07 JTR301CR
		Dilution Factor: 7.51			
		Analysis Time...: 18:26			
Selenium	95	(80 - 120)		SW846 6020	04/19-04/23/07 JTR301CX
	97	(80 - 120) 2.8 (0-20)		SW846 6020	04/19-04/23/07 JTR301C0
		Dilution Factor: 7.51			
		Analysis Time...: 18:26			
Silver	100	(80 - 120)		SW846 6020	04/19-04/23/07 JTR301A1
	99	(80 - 120) 4.5 (0-20)		SW846 6020	04/19-04/23/07 JTR301A2
		Dilution Factor: 7.51			
		Analysis Time...: 18:26			
Thallium	103	(80 - 120)		SW846 6020	04/19-04/23/07 JTR301C3
	104	(80 - 120) 3.7 (0-20)		SW846 6020	04/19-04/23/07 JTR301C4
		Dilution Factor: 7.51			
		Analysis Time...: 18:26			
Titanium	NC	(80 - 120)		SW846 6020	04/19-04/23/07 JTR301C1
	NC	(80 - 120) (0-20)		SW846 6020	04/19-04/23/07 JTR301C2
		Dilution Factor: 7.51			
		Analysis Time...: 18:26			

(Continued on next page)

## MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #....: I7D120264

Matrix.....: SOLID

Date Sampled...: 04/10/07 10:06 Date Received...: 04/12/07

PARAMETER	PERCENT	RECOVERY	RPD	METHOD	PREPARATION-	WORK
	RECOVERY	LIMITS	RPD		ANALYSIS DATE	ORDER #
Zinc	NC	(80 - 120)		SW846 6020	04/19-04/23/07	JTR301C5
	NC	(80 - 120)	(0-20)	SW846 6020	04/19-04/23/07	JTR301C6
		Dilution Factor: 7.51				
		Analysis Time...: 18:26				

MS Lot-Sample #: I7D120264-001 Prep Batch #....: 7109239

% Moisture.....: 38

Boron	178 N	(75 - 125)	SW846 6010B	04/19-04/20/07	JTR301C7
	174 N	(75 - 125) 1.6	(0-20) SW846 6010B	04/19-04/20/07	JTR301C8
		Dilution Factor: 0.75			
		Analysis Time...: 13:10			

MS Lot-Sample #: I7D120264-001 Prep Batch #....: 7114205

% Moisture.....: 38

Mercury	86	(75 - 125)	SW846 7471A	04/24/07	JTR301DD
	88	(75 - 125) 9.0	(0-20) SW846 7471A	04/24/07	JTR301DE
		Dilution Factor: 0.96			
		Analysis Time...: 17:34			

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

## MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: I7D120264

Matrix.....: SOLID

Date Sampled...: 04/10/07 10:06 Date Received..: 04/12/07

PARAMETER	SAMPLE	SPIKE	MEASRD		PERCNT			PREPARATION-	WORK
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD	METHOD		

MS Lot-Sample #: I7D120264-001 Prep Batch #...: 7109235

% Moisture....: 38

## Aluminum

17400	6060	23200	mg/kg	96		SW846	6020	04/19-04/23/07	JTR301A3
17400	5800	22700	mg/kg	92	2.2	SW846	6020	04/19-04/23/07	JTR301A4
Dilution Factor: 7.51									
Analysis Time...: 18:26									

## Antimony

0.15	6.06	3.46 N	mg/kg	55		SW846	6020	04/19-04/23/07	JTR301CV
0.15	5.80	3.15 N	mg/kg	52	9.4	SW846	6020	04/19-04/23/07	JTR301CW
Dilution Factor: 7.51									
Analysis Time...: 18:26									

## Arsenic

2.8	6.06	8.70	mg/kg	97		SW846	6020	04/19-04/23/07	JTR301A5
2.8	5.80	8.14	mg/kg	92	6.8	SW846	6020	04/19-04/23/07	JTR301A6
Dilution Factor: 7.51									
Analysis Time...: 18:26									

## Barium

102	6.06	124 NC	mg/kg			SW846	6020	04/19-04/23/07	JTR301A7
102	5.80	130 NC	mg/kg			SW846	6020	04/19-04/23/07	JTR301A8
Dilution Factor: 7.51									
Analysis Time...: 18:26									

## Beryllium

0.75	6.06	6.06	mg/kg	88		SW846	6020	04/19-04/23/07	JTR301A9
0.75	5.80	5.97	mg/kg	90	1.4	SW846	6020	04/19-04/23/07	JTR301CA
Dilution Factor: 7.51									
Analysis Time...: 18:26									

## Cadmium

0.19	6.06	6.40	mg/kg	102		SW846	6020	04/19-04/23/07	JTR301CC
0.19	5.80	6.20	mg/kg	104	3.2	SW846	6020	04/19-04/23/07	JTR301CD
Dilution Factor: 7.51									
Analysis Time...: 18:26									

## Cobalt

6.2	6.06	12.7	mg/kg	107		SW846	6020	04/19-04/23/07	JTR301CE
6.2	5.80	12.7	mg/kg	111	0.52	SW846	6020	04/19-04/23/07	JTR301CF
Dilution Factor: 7.51									
Analysis Time...: 18:26									

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## MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: I7D120264

Matrix.....: SOLID

Date Sampled...: 04/10/07 10:06 Date Received..: 04/12/07

<u>PARAMETER</u>	<u>SAMPLE AMOUNT</u>	<u>SPIKE AMT</u>	<u>MEASRD AMOUNT</u>	<u>UNITS</u>	<u>PERCNT RECVRY</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
<b>Copper</b>									
	13.0	6.06	19.2	mg/kg	103		SW846 6020	04/19-04/23/07	JTR301CG
	13.0	5.80	18.9	mg/kg	102	1.6	SW846 6020	04/19-04/23/07	JTR301CH
Dilution Factor: 7.51									
Analysis Time...: 18:26									
<b>Iron</b>									
	15900	6060	18000 N	mg/kg	33		SW846 6020	04/19-04/23/07	JTR301CJ
	15900	5800	18000 N	mg/kg	35	0.02	SW846 6020	04/19-04/23/07	JTR301CK
Dilution Factor: 7.51									
Analysis Time...: 18:26									
<b>Lead</b>									
	15.6	6.06	21.8	mg/kg	101		SW846 6020	04/19-04/23/07	JTR301CT
	15.6	5.80	21.5	mg/kg	100	1.5	SW846 6020	04/19-04/23/07	JTR301CU
Dilution Factor: 7.51									
Analysis Time...: 18:26									
<b>Lithium</b>									
	16.3	6.06	24.5 N	mg/kg	135		SW846 6020	04/19-04/23/07	JTR301CL
	16.3	5.80	24.2 N	mg/kg	135	1.4	SW846 6020	04/19-04/23/07	JTR301CM
Dilution Factor: 7.51									
Analysis Time...: 18:26									
<b>Manganese</b>									
	200	6.06	202 NC	mg/kg			SW846 6020	04/19-04/23/07	JTR301CN
	200	5.80	199 NC	mg/kg			SW846 6020	04/19-04/23/07	JTR301CP
Dilution Factor: 7.51									
Analysis Time...: 18:26									
<b>Nickel</b>									
	15.4	6.06	22.7	mg/kg	120		SW846 6020	04/19-04/23/07	JTR301CQ
	15.4	5.80	22.4 N	mg/kg	121	1.0	SW846 6020	04/19-04/23/07	JTR301CR
Dilution Factor: 7.51									
Analysis Time...: 18:26									
<b>Selenium</b>									
	ND	6.06	5.91	mg/kg	95		SW846 6020	04/19-04/23/07	JTR301CX
	ND	5.80	5.75	mg/kg	97	2.8	SW846 6020	04/19-04/23/07	JTR301C0
Dilution Factor: 7.51									
Analysis Time...: 18:26									

(Continued on next page)

## MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: I7D120264

Matrix.....: SOLID

Date Sampled...: 04/10/07 10:06 Date Received...: 04/12/07

PARAMETER	SAMPLE	SPIKE	MEASRD	PERCNT			PREPARATION-	WORK	
	AMOUNT	AMT	AMOUNT	UNITS	RECVRY	RPD			ANALYSIS
Silver									
	0.073	1.21	1.28	mg/kg	100		SW846	6020	04/19-04/23/07 JTR301A1
	0.073	1.16	1.23	mg/kg	99	4.5	SW846	6020	04/19-04/23/07 JTR301A2
			Dilution Factor:	7.51					
			Analysis Time...:	18:26					

## Thallium

	0.30	6.06	6.55	mg/kg	103		SW846	6020	04/19-04/23/07 JTR301C3
	0.30	5.80	6.31	mg/kg	104	3.7	SW846	6020	04/19-04/23/07 JTR301C4
			Dilution Factor:	7.51					
			Analysis Time...:	18:26					

## Titanium

	120	6.06	192 NC	mg/kg			SW846	6020	04/19-04/23/07 JTR301C1
	120	5.80	188 NC	mg/kg			SW846	6020	04/19-04/23/07 JTR301C2
			Dilution Factor:	7.51					
			Analysis Time...:	18:26					

## Zinc

	78.9	6.06	88.2 NC	mg/kg			SW846	6020	04/19-04/23/07 JTR301C5
	78.9	5.80	87.2 NC	mg/kg			SW846	6020	04/19-04/23/07 JTR301C6
			Dilution Factor:	7.51					
			Analysis Time...:	18:26					

MS Lot-Sample #: I7D120264-001 Prep Batch #...: 7109239

% Moisture....: 38

## Boron

	32.1	6.06	42.8 N	mg/kg	178		SW846	6010B	04/19-04/20/07 JTR301C7
	32.1	5.80	42.2 N	mg/kg	174	1.6	SW846	6010B	04/19-04/20/07 JTR301C8
			Dilution Factor:	0.75					
			Analysis Time...:	13:10					

MS Lot-Sample #: I7D120264-001 Prep Batch #...: 7114205

% Moisture....: 38

## Mercury

	0.015	0.260	0.238	mg/kg	86		SW846	7471A	04/24/07 JTR301DD
	0.015	0.231	0.217	mg/kg	88	9.0	SW846	7471A	04/24/07 JTR301DE
			Dilution Factor:	0.96					
			Analysis Time...:	17:34					

## NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

N Spiked analyte recovery is outside stated control limits.

## SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #....: I7D120264      Work Order #....: JTF8P-SMP      Matrix.....: SOLID  
    JTF8P-DUP

Date Sampled....: 04/03/07 11:30    Date Received...: 04/06/07

% Moisture.....: 0.78

PARAM	RESULT	DUPPLICATE	UNITS	RPD	LIMIT	METHOD	PREPARATION-	PREP	BATCH #
		RESULT					ANALYSIS DATE		
Percent Moisture	0.78	0.93	%	18	(0-20)	ASTM D 2216-90	SD Lot-Sample #: I7D060137-001 04/12/07		7102440

Dilution Factor: 1      Analysis Time...: 16:32

## SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: I7D120264      Work Order #....: JTR4J-SMP      Matrix.....: SOLID  
     JTR4J-DUP

Date Sampled...: 04/09/07 14:55 Date Received...: 04/12/07

% Moisture.....: 36

PARAM RESULT	DUPPLICATE	UNITS	RPD	LIMIT	METHOD	PREPARATION-	PREP	BATCH #
	RESULT					ANALYSIS DATE		
Percent Moisture	35.6	34.8	%	2.3	(0-20)	SD Lot-Sample #: I7D120264-005 ASTM D 2216-90	04/12/07	7102446

Dilution Factor: 1 Analysis Time...: 17:34

### Report Attachment

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of the NELAC standards. All data have been found to be compliant with laboratory protocol except as otherwise noted.

Note that if this report contains tests performed for the following methods, the associated method deviations are applicable.

EPA 410.4, COD: Laboratory uses different analytical wavelength as specified by instrument manufacturer.

EPA 340.2, Fluoride: Preliminary Bellack distillation not performed.

EPA 624: The laboratory uses a different desorb time and purge volume than stated in the method.

Iowa OA1: Benzene, toluene, ethylbenzene and xylenes (BTEX) are not analyzed along with the Gasoline Range Organics if client does not require BTEX.

EPA TO-12: Samples not analyzed in duplicate.

EPA TO-14A and TO-15: Zero humidified nitrogen is used in place of air for method blanks.

### TRRP Reporting Requirements

If this package contains reports requiring TRRP (Texas Risk Reduction Program) reporting criteria, the following information applies.

The REPORTING LIMIT is equivalent to the TRRP acronym MQL (method quantitation limit).

The MDL is equivalent to the TRRP acronym SDL (sample detection limit).

STL

415193

129437

RECEIVED BY: TSMDATE/TIME RECEIVED: 4-11-07 8:30UNPACKED DATE/TIME: 4-11-07 9:10CLIENT/PROJECT: EA EST, INCNumber of Shipping Containers Received  
with Chain of Custody \_\_\_\_\_

72589

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## CHAIN-OF-CUSTODY ADDENDUM

Lot No: I7D120264

COC NUMBER: \_\_\_\_\_

QUOTE/PROFILE: 74895Send split to STL DenverSAMPLES LOGGED IN: ML LOG-IN REVIEWED: JNSVOC AIR / FILTER SAMPLES  YES SEE SECTIONS 1.0, 2.0, & 6.01.0 CONTAINERS EXAMINED UPON RECEIPT: TSContainer Sealed:  YES  NO

Custody Seal Signed/Dated: \_\_\_\_\_

 YES  NOCustody Seal Present:  YES  NO

If seal not intact list air bill number of that container(s): \_\_\_\_\_

## 2.0 VOC CANISTERS EXAMINED UPON RECEIPT:

Canister Valves Closed:  YES  NO Samples Received Match Chain:  YES  NOCanister Valves Capped:  YES  NO Other Equipment Received:  YES  NOValve Cap Tightened Properly:  YES  NO See Additional Comments (Section 5.0 and / or 7.0)  YES  NOPacking Material Used: (circle) Chain-of-Custody form properly maintained:  YES  NONone / Absorbent / Paper / Bubble Wrap Can Size:  6L  15L Other \_\_\_\_\_3.0 SAMPLE TEMPERATURE UPON RECEIPT BY: TS IR THERMOMETER #: P4

Temperature of the container(s):

Circle selection: TB = Temp. Blank and/or SC = Sample Container

[acceptable tolerance 4°C ± 2°]

TB	TB	TB	TB	TB	TB	TB	TB	TB	TB
SC 149	SC								

If temperature is outside acceptable tolerance, Project Manager was notified (       PM). Date:        Time:       

Samples received do not require cooling \_\_\_\_\_

OK to analyze samples:  YES  NOPRESERVATION OF SAMPLES REQUIRED:  NA  YES  VOA Samples VERIFIED BY: TS

NOTE: pH CHECK OF VOLATILE SAMPLES PERFORMED AFTER ANALYSIS BY THE BENCH ANALYST.

Base samples are >pH 12:  YES  NOAcid preserved are <pH 2:  YES  NO

Cyanide samples checked

Sulfide samples appear

for sulfides:  YESto be preserved with zinc acetate:  YES  NOSamples checked for chlorine  
per specification (N.C.)  YESFree chlorine present:  YES  NOIf sample preservation is outside acceptable tolerance, Project Manager was notified (       PM)Date:        Time:         see pH adjustment formVOLATILE SAMPLES FILLED COMPLETELY, IF NOT, LIST ID AND HEADSPACE OF VOA's CONTAINING  
BUBBLES EXCEEDING 6MM IN DIAMETER:

Sample ID	mm Headspace

Sample ID	mm Headspace

# STL

## CHAIN-OF-CUSTODY ADDENDUM

Lot No: ITD120264

## 4.0 CONDITION OF BOTTLES/CONTAINERS

VERIFIED BY: Ts

Samples received match COC:  YES  NO Bottles received intact:  YES  NO  
See additional discrepancies/comments section:  YES  NO Samples received from USDA restricted area:  YES  NO  
Chain-of-Custody form properly maintained:  YES  NO VOA trip blanks included:  YES  NO  N/A

## 5.0 ADDITIONAL DISCREPANCIES

Appears on COC		Appears on Label		
Sample ID	Date/Time	Sample ID	Date/Time	Comments

## 6.0 SHIPPING DOCUMENTATION:

Air/freight bill is available and attached to COC:  YES  NO Air bill #: \_\_\_\_\_

Hand-delivered Carrier: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

## 7.0 OTHER COMMENTS:

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## CORRECTIVE ACTION:

Client's Name: \_\_\_\_\_ Informed verbally on: \_\_\_\_\_ By: \_\_\_\_\_

Client's Name: \_\_\_\_\_ Informed verbally on: \_\_\_\_\_ By: \_\_\_\_\_

Sample(s) processed "as is" comments: \_\_\_\_\_

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Samples(s) on hold until: \_\_\_\_\_ If released, notify: \_\_\_\_\_

REVIEW: Neal Sodl Date: 4/13/07  
Project Management: \_\_\_\_\_











**GULFCO SURFACE SOIL SPLIT SAMPLE DATA  
(LAB SDG I7D120264)**

Client Sample ID	Lab Lot ID	Lab Sample No.	Matrix	Collected	Analyte	CAS	Result	Flag	Reporting Limit	MDL	Units	Method	Dilution	%Water	Received	Prepped	Analyzed
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Cadmium	7440439	0.41	B	0.95	0.04	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Cobalt	7440484	5.3		0.95	0.03	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Copper	7440508	111		0.95	0.26	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Iron	7439896	41500	J	47.5	28.4	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Lead	7439921	70.7		0.95	0.038	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Lithium	7439932	9.4		7.6	0.26	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Manganese	7439965	478		0.95	0.24	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Nickel	7440020	19.2	J	0.95	0.1	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Selenium	7782492	ND		0.95	0.12	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Silver	7440224	0.039	B J	0.95	0.019	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Thallium	7440280	0.1	B	0.95	0.013	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Titanium	7440326	445	J	9.5	0.21	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Zinc	7440666	180		9.5	2.6	mg/kg	6020	8.06	15	4/12/2007	4/19/2007	4/23/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Mercury	7439976	0.084	B J	0.12	0.0022	mg/kg	7471A	0.98	15	4/12/2007	4/24/2007	4/24/2007
L20SS08-EPA	I7D120264	4	SOLID	4/10/2007	Percent Moisture	Q1028	15.2		0.5	0	%	D 2216-90	1	15	4/12/2007	4/12/2007	4/12/2007